

Graduate Catalog Home

A Message from Our Dean

We welcome you to explore the many offerings of our graduate programs here at the University of Florida. The reputation of a research university is, in large part, measured not only by the excellence of its graduate faculty and graduate students, but also, importantly, by the quality of its academic graduate programs. Through its chosen graduate faculty members, the University of Florida is able to offer graduate programs of the highest quality.

Our catalog is intended to provide information and resources to those interested in graduate education programs at the University of Florida and also is here for our current students, by helping them to make the best decisions, in order to maintain and continue their academic progress, while on the way to their professional and personal goals.

Henry T. Frierson, PhD
Associate Vice President and Dean of the Graduate School

Equity and Diversity

The University encourages applications from all qualified candidates. The University is committed to non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information and veteran status.*

Refer to the Office of Institutional Equity & Diversity within UF's Human Resource Services for additional information. For more information regarding UF's commitment to equity and diversity, visit The Office of Institutional Equity & Diversity's website at <http://www.hr.ufl.edu/eeo/default.htm>.

Accreditation

The University of Florida is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award bachelor, master, specialist, engineer, doctoral and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the University of Florida.

Notes:

*As protected under the Vietnam Era Veterans' Readjustment Assistance Act

Commitment to Diversity

The University of Florida is committed to creating a community that reflects the rich racial, cultural and ethnic diversity of the state and nation. No challenge that exists in higher education has greater importance than the challenge of enrolling students and hiring faculty and staff who are members of diverse racial, cultural or ethnic groups. This pluralism enriches the university community, offers opportunity for robust academic dialogue and contributes to better teaching and research. The university and its components benefit from the richness of a multicultural student body, faculty and staff who can learn from one another. Such diversity will empower and inspire respect and understanding among us. The university does not tolerate the actions of anyone who violates the rights of another person.

Through policy and practice, the university strives to embody a diverse community. Our collective efforts will lead to a university that is truly diverse and reflects the state and nation.

Graduate School

The information in this catalog is current as of July 2014. Please contact individual departments or programs for any additional information or changes.

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Organization

The Graduate School currently consists of the Dean, a Senior Associate Dean, an Assistant Dean, the Graduate Council, the Graduate Faculty, and the Graduate School staff. General policies and standards of the Graduate School are established by the Graduate Faculty. Any policy change must be approved by the graduate dean(s) and the Graduate Council. The Graduate School is responsible for enforcing minimum general standards of graduate work in the University and for coordinating the graduate programs of the various colleges and divisions of the University. Responsibility for detailed operation of graduate programs is vested in individual colleges, schools, divisions, and academic units. In most colleges an associate dean or other administrator is directly responsible for graduate studies in that college. The Graduate Council helps the Dean in being the agent of the Graduate Faculty for executing policy related to graduate study and

associated research. The Council (chaired by the Graduate Dean) considers petitions, policy changes, and creation of or revisions to graduate degree programs, concentrations, and certificates. All faculty members who serve on supervisory committees or who direct master's theses and doctoral dissertations must first be appointed to the Graduate Faculty. A graduate program's academic unit nominates faculty members for appointment to the Graduate Faculty. Nominations must be approved by the Department Chair/Director, the College Dean, and a vote of the current graduate faculty members in the nominating unit. The appointment is formally approved by the Graduate Dean. The academic unit determines the level of duties for each Graduate Faculty member, though it is expected that all Graduate Faculty members should be available and willing to serve as external members of doctoral dissertation committees across the University of Florida campus.

Graduate Deans

HENRY T. FRIERSON,

Ph.D. (Michigan State University), Dean of the Graduate School, Associate Vice President, and Professor of Research and Evaluation Methodology

R. PAUL DUNCAN

Ph.D. (Purdue University), Senior Associate Dean of the Graduate School and Malcom and Christine Randall Professor of Health Services Research, Management and Policy

Graduate Council (2013-2014)

HENRY T. FRIERSON

Chair, Ph.D. (Michigan State University), Dean of the Graduate School and Associate Vice President

NANCY FICHTMAN DANA

Ph.D. (Florida State University), Professor, Teaching and Learning

AMIR EREZ

Ph.D. (Cornell University), Associate Professor, Management

ANN HORGAS

Ph.D. (Pennsylvania State University), Associate Professor, Nursing

CHRISTOPHER JANELLE

Ph.D. (University of Florida), Applied Physiology and Kinesiology

ELLEN MARTIN

Ph.D. (Scripps Institution of Oceanography), Professor, Geography

HEATHER MCAUSLANE

Ph.D. (Texas A&M University), Professor, Entomology and Nematology

KEVIN ORR

D.M.A. (The Cleveland Institute of Music/Case Western Reserve University), Professor, Music

JOANNA PERIS

Ph.D. (Oregon Health Sciences University), Associate Professor, Pharmacodynamics

CINDY PRINS

Ph.D. (Penn State University), Clinical Assistant Professor, Epidemiology

CONSTANCE SHEHAN

Ph.D. (Pennsylvania State University), Professor, Women's Studies and Gender Research

DIETMAR W. SIEMANN

Ph.D. (University of Toronto), Professor and Associate Chair for Research, Radiation Oncology

PAMELA SOLTIS

Ph.D. (University of Kansas), Distinguished Professor, Botany

History

Graduate study at UF existed while the University was still on its Lake City campus. However, the first graduate degrees, two Master of Arts with a major in English, were awarded on the Gainesville campus in 1906. The first Master of Science was awarded in 1908, with a major in entomology. The first programs leading to the Ph.D. were approved in 1930, and the first degrees were awarded in 1934, one with a major in chemistry and the other with a major in pharmacy. The first Ed.D. was awarded in 1948. Graduate study has grown phenomenally at UF. In 1930, 33 degrees were awarded in 12 fields. In 1940, 66 degrees were awarded in 16 fields. In 2013-14, UF awarded over 5000 graduate degrees in more than 100 fields, including 765 Ph.D. degrees.

Graduate Deans and Years of Service

May 2007 to Present

2004-2007

1999-2004

1998-1999

1993-1998

July-September 1993

1985-1993

1983-1985

September 1982-January 1983

1980-1982

1979-1980

1973-1979

1971-1973

1969-1971

1952-1969

Henry T. Frierson, Dean

Kenneth J. Gerhardt, Interim Dean

Winfred M. Phillips, Dean

M. Jack Ohanian, Interim Dean

Karen A. Holbrook, Dean

Gene W. Hemp, Acting Dean

Madelyn M. Lockhart, Dean

Donald R. Price, Acting Dean

Gene W. Hemp, Acting Dean

Francis G. Stehli, Dean

F. Michael Wahl, Acting Dean

Harry H. Sisler, Dean

Alex G. Smith, Acting Dean

Harold P. Hanson, Dean

L. E. Grinter, Dean

1951-1952
1938-1951
1930-1938

C. F. Byers, Acting Dean
T. M. Simpson, Dean
James N. Anderson, Dean

Governance

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State University System of Florida
325 West Gaines Street, Suite 1614

Tallahassee, Florida 32399-0400

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Ph.D., Vice President for Research

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M.S.E.E and M.B.A., Vice President for Business Affairs

JEREMY FOLEY
M.S., Director, UF Athletics

ED JIMENEZ
M.B.A., Interim CEO, Shands HealthCare

TJ VILLAMIL

M.S., Special Assistant to the President and Board of Trustees Liaison

Deans and Other Administrators

CAMMY ABERNATHY,
Ph.D., Dean, College of Engineering

MILLIE FERRER-CHANCY,
Ph.D., Interim Dean and Director for Cooperative Extension Services, Institute of Food and Agricultural Sciences

GEORGE L. DAWSON,
J.D., Dean, Levin College of Law

HENRY T. FRIERSON,
Ph.D., Dean, Graduate School, and Associate Vice President, Academic Affairs

GLENN GOOD,
Ph.D., Dean, College of Education

MICHAEL L. GOOD,
M.D., Dean, College of Medicine

JOHN HAYES,
Ph.D., Interim Dean for Research, Institute of Food and Agricultural Sciences

JULIE A. JOHNSON
Pharm.D., Dean, College of Pharmacy

DOUGLAS S. JONES,
Ph.D., Director, Florida Museum of Natural History

JOHN KRAFT,
Ph.D., Dean, Warrington College of Business Administration

LUCINDA LAVELLI,
M.F.A., M.N.O., Dean, College of Fine Arts

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B.S., University Registrar

MICHAEL B. REID,
Ph.D., Dean, College of Health and Human Performance

DAVID E. RICHARDSON
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BOYD E. ROBINSON,
D.D.S., M.Ed., Interim Dean, College of Dentistry

JUDITH RUSSELL,
M.S., Dean, University Libraries

DAVID SAMMONS,
Ph.D., Dean, International Center

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CHRISTOPHER SILVER,
Ph.D., Dean, College of Design, Construction, and Planning

ELAINE TURNER,
Ph.D., Dean, College of Agricultural and Life Sciences

RICHARD D. WILDER
B.S.B.A., Director of Student Financial Affairs

Purpose and Mission of the University

The University of Florida is a public land-grant, sea-grant and space-grant research university, one of the most comprehensive in the United States. The university encompasses virtually all academic and professional disciplines. It is the largest and oldest of Florida's eleven universities, a member of the Association of American Universities and has high national rankings by academic assessment institutions. Its faculty and staff are dedicated to the common pursuit of the university's threefold mission: teaching, research and service.

The University of Florida belongs to a tradition of great universities. Together with its undergraduate and graduate students, UF faculty participate in an educational process that links the history of Western Europe with the traditions and cultures of all societies, explores the physical and biological universes and nurtures generations of young people from diverse backgrounds to address the needs of the world's societies. The university welcomes the full exploration of its intellectual boundaries and supports its faculty and students in the creation of new knowledge and the pursuit of new ideas.

Teaching is a fundamental purpose of this university at both the undergraduate and graduate levels. Research and scholarship are integral to the educational process and to the expansion of our understanding of the natural world, the intellect and the senses. Service reflects the university's obligation to share the benefits of its research and knowledge for the public good.

The university serves the nation's and the state's critical needs by contributing to a well-qualified and broadly diverse citizenry, leadership and workforce. The University of Florida must create the broadly diverse environment necessary to foster multi-cultural skills and perspectives in its teaching and research for its students to contribute and succeed in the world of the 21st century.

These three interlocking elements—teaching, research and scholarship, and service—span all the university's academic disciplines and represent the university's commitment to lead and serve the state of Florida, the nation and the world by pursuing and disseminating new knowledge while building upon the experiences of the past. The university aspires to advance by strengthening the human condition and improving the quality of life.

Vision, Mission, and Values of the University of Florida Graduate School

Vision

The Graduate School is the umbrella administrative unit that guides all graduate programs at the University of Florida, thereby allowing students to reach their educational potential with a focus on contributions to the state of Florida, the nation, and the world.

Mission

The University of Florida Graduate School is committed to ensuring that every graduate student obtains the best possible educational and research experiences, is supported by committed Graduate Faculty and can complete their degrees in a reasonable time. Policies and procedures developed by the Graduate School are intended to uphold the highest academic standards without restricting student successes in scientific, scholarly, creative, and professional arenas. The Graduate School provides administrative services to help coordinate, educate, and collaborate with the university community in all aspects of graduate education.

Values

Members of the Graduate School and graduate community value

- High academic standards
- Ethical conduct of scholarship and research
- Creating, archiving and transmitting knowledge and beauty in word, thought and the arts that enhance the human experience
- Desire for life-long learning
- Diversity
- Commitment to advance the health, education, and well-being of citizens throughout the world

Admission

The information in this catalog is current as of July 2014. Please contact individual programs for any additional information or changes.

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How to Apply

To apply for admission, go online to the Office of Admissions Graduate Admissions website (<http://www.admissions.ufl.edu/applygraduate.html>) for basic information and contact the academic unit of interest for specific deadlines, requirements and procedures. To find websites for academic units, go online to <http://www.graduateschool.ufl.edu/academics/colleges-schools-and-departments>. The Office of Admissions refers applications that meet minimum standards to the graduate admission committees of the pertinent academic units for approval or disapproval. Applicants must meet the requirements of both the academic unit and the Graduate School to be admitted for graduate study. Admission to some programs is limited by what resources are available.

Requirements for Admission:

- A recognized baccalaureate, graduate or professional degree from a regionally accredited U.S. institution or a comparable degree from an international institution.
- For applicants with a bachelor's degree only, a minimum grade point average of B (3.0), calculated from all grades and credits after the semester where the applicant reached 60 semester hours or 90 quarter hours and Graduate Record Examination (GRE) scores that are acceptable to the applicant's intended academic unit or, for select programs, at least 465 on the Graduate Management Admission Test (GMAT). These scores are used in the context of a holistic credential review process.
- For applicants from countries (including Puerto Rico) where English is not the official language, a minimum score on one of these English Language Skills tests: Test of English as a Foreign Language (TOEFL): 550 paper, or 80 internet; International English Language Testing System (IELTS): 6; Michigan English Language Assessment Battery (MELAB): 77, or documented successful completion of the University of Florida English Language Institute program.

- Graduate study in Law: Applicants must hold the Juris Doctor or equivalent degree. Consult the Levin College of Law catalog (<http://www.law.ufl.edu/programs/>) for the specific programs of interest.

Some academic units require a reading knowledge of at least one foreign language. Exceptions to the above requirements are made only when these and other criteria, including letters of recommendation, are reviewed by the academic unit, recommended by the college, and approved by the Dean of the Graduate School.

Direct admission to the Graduate School requires a baccalaureate degree from an accredited college or university. Applicants must arrange to send official transcripts from each institution attended to the Office of Admissions. Applicants should reference their academic unit's website as some require that applicants submit an official copy of their transcript from each institution attended directly to their attention as well as the Office of Admissions. These transcripts must be received directly from the registrar of the institution where the work was done. Applicants who currently are enrolled at another institution must send updated transcripts as soon as they are available for any work completed after applying for admission.

Please note: If admitted without final official transcripts or test scores, final test scores or final credentials must be posted in the UF Office of Admissions database before the end of the first term of enrollment.

Students failing to meet any admission conditions are barred from continued registration after their first semester.

Admission requirements of an academic unit are often more rigorous than the minimum requirements set by the Graduate School. Because of resource limitations, most academic units do not accept all qualified applicants.

UF is committed to creating a community that reflects the rich racial, cultural, and ethnic diversity of the State of Florida and the United States of America. The greatest challenge in higher education is to enroll students and hire faculty and staff who are members of diverse racial, cultural, or ethnic minority groups. This pluralism enriches the University community, offers opportunity for robust academic dialogue, and contributes to better teaching and research. The University and its components benefit from the richness of a multicultural student body, faculty, and staff who can learn from one another. Such diversity empowers and inspires respect and understanding among us. The University does not tolerate the actions of anyone who violates the rights of another. By policy and practice, the University embodies a diverse community. Our collective efforts lead to a University that is truly diverse and a University that reflects the U.S. population.

The University encourages all qualified applicants to apply for admission. See [UF's Commitment to Equity and Diversity](#) for more information. Should you feel you have been discriminated against or need further information regarding this policy, feel free to contact the Office of Institutional Equity and Diversity. The Title IX Coordinator's mailing address is Box 115010, Gainesville, FL 32611-5010, and their website can be found here: <http://www.hr.ufl.edu/eoo/default.htm>.

Admissions Examinations

Graduate Record Examination (GRE): Most applicants must submit GRE scores that are acceptable to the program of interest. In addition to the General Test of the GRE, some academic units encourage the applicant to submit scores on one or more advanced subject tests. Scores on all tests taken are considered for admission. Applicants with a previous graduate or professional degree or equivalent from a regionally accredited U.S. institution may be exempt from the GRE and undergraduate GPA requirements. Contact the academic unit for specific requirements.

Graduate Management Admission Test (GMAT): All MBA applicants must submit satisfactory scores on the GMAT. GMAT scores may also be accepted by certain MHA, Sport Management and Food and Resource Economics programs.

Graduate study in Engineering: Some programs may use the Fundamentals of Engineering (FE) examination in lieu of the GRE for admitting students into the non-thesis master's degree programs.

Medical Immunization

Students must complete the [University of Florida Mandatory Immunization Health History Form](#). Specific details and explanations for how to complete the form successfully are included. Read the directions carefully. Please be aware that students will not be able to register for classes until this form is received and approved by the SHCC immunization staff.

UF's Student Health Care Center offers vaccine counseling and education in addition to administering required and recommended vaccinations in accordance with best medical practices for disease prevention. There is a fee for these services.

Computer Requirement

Access to and on-going use of a computer is required for all students to complete their degree programs successfully. The University of Florida expects each undergraduate student entering the junior year, as well as each student new to the university, to acquire computer hardware and software appropriate to his or her degree program. Competency in the basic use of a computer is a requirement for graduation. Class assignments may require use of a computer, academic advising and registration can be done by computer, and official university correspondence is often sent via e-mail.

While the university offers limited access to computers through its computer labs, most students will be expected to purchase or lease a computer that is capable of wireless and wired network connection to the Internet, graphical access to the World Wide Web, and productivity functions such as word processing and spreadsheet calculation. Costs of meeting this requirement will be included in financial aid considerations.

Conditional Admission

Academic units may, at their discretion, grant conditional admission to up to 10% of an incoming class.

Conditional admission candidates must have all application materials submitted: a valid prior degree, admission exam scores, English test scores (if required), transcripts, statement of purpose and recommendation letters, along with records of postbaccalaureate grades or work histories of pertinent prior professional experience, if the academic unit is justifying conditional admission on the basis of either.

Academic units granting conditional admission must include the terms of admission in the acceptance letter they send to the student. When the conditions are met, the academic unit must notify the student in writing, sending a copy to Graduate School Data Management (graddata@aa.ufl.edu) for scanning into the student's file.

Conditional admission cases due to graduate admission grade point averages below 3.0, missing or unofficial test scores, and English test scores (if required) below the stated minimums (6 for IELTS, 80 for Internet TOEFL, 77 for MELAB, 550 for Paper TOEFL or 320 [for tests prior to August 1, 2011] or 140 [for tests after August 1, 2011] for verbal GRE) must have final approval from the Graduate School. No acceptance letter can be sent without this final approval from the Graduate School.

In cases of students conditionally admitted with missing official transcripts or test scores, final admission is deferred for one semester, until required test scores or final credentials are posted in the UF Office of Admissions database.

Students failing to meet any admission conditions are barred from continued registration after their first semester.

English Language Institute (ELI) Conditional Admission

International applicants, who require additional English Language training in order to meet the Graduate School's English Language minimum requirements, may be offered English Language Institute (ELI) Conditional Admission. Academic programs will assess an application for ELI Conditional Admission based on all of the materials in an applicant's file. If an applicant has a low or missing score on the IELTS, MELAB or TOEFL test, or does not have a satisfactory score on the GRE Verbal section, but is otherwise academically qualified, a program may grant ELI Conditional Admission.

Such an offer of admission does not guarantee an applicant can enroll in graduate coursework. All ELI Conditionally Admitted students must complete one of the following two options before they can enroll: 1) he/she must complete the ELI Intensive English Program and receive an exit certificate from it, or; 2) he/she must provide satisfactory verbal GRE and IELTS, MELAB or TOEFL scores. An offer of ELI Conditional Admission may also contain additional conditions set by an applicant's prospective academic program. ELI will coordinate with an applicant's academic program, in order to assist in the student's entry into the Intensive English Program, and obtain an appropriate visa.

International Students

All international students seeking admission to the Graduate School must submit satisfactory scores on the GRE General Test (with at least 320 [old scoring scale] or 140 [new scoring scale] on the verbal portion) or GMAT for selected programs.

International applicants (including those from Puerto Rico) must submit a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: paper=550, internet=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77) or an exit certificate from the University of Florida English Language Institute (UF ELI) program.

Students who meet the following conditions may be exempt from the English language test requirements:

- International students whose native language is English
- International students who have spent at least 1 academic year enrolled full-time in a baccalaureate or post-baccalaureate degree program at a college or university in a country where English is the official language

To be eligible for graduate teaching assistantships, students must score at least 55 on the SPEAK Test or 28 on the Speaking Section of the Internet TOEFL to teach in the classroom, laboratory, or other instructional setting. Those who score 45 to 50 on the SPEAK Test, or 23 to 27 on the Speaking Section of the Internet TOEFL, may teach if they concurrently enroll in EAP 5836 to help their personal interaction and public speaking skills. Those who have scores below these minimums are not eligible to teach.

Applicants should write to the Educational Testing Service, Princeton, NJ 08540, for registration forms and other information on TOEFL, TSE, GMAT, and GRE, or the website at www.ets.org. Information about IELTS can be found at <http://www.ielts.org>. Information about MELAB can be found at <http://www.lsa.umich.edu/eli/testing/melab/general/>. Information about the University of Florida English Language Institute is available at www.eli.ufl.edu. Students may register for the locally administered SPEAK test with the Academic Spoken English Office, 3340 Turlington Hall.

Students with Disabilities

The Disability Resource Center (DRC) at the University of Florida provides services to students with disabilities in compliance with Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act. The DRC works to provide equal access to University programs and services in order to meet the individual needs of students with disabilities.

Students are not required to disclose their disability. However, if accommodations are requested, students must register with the Disability Resource Center and provide documentation to verify their disability. Documentation from a qualified physician or other licensed professional in a field related to the disability is required. At a minimum, the documentation should address:

- Verification of disability,
- Substantial functional limitations noted as a result of the disability on a major life activity,
- Recommendations of possible accommodations.

For information about services or to set-up an appointment, please call the office at (352) 392-8565 or visit the office in 001 Building 0020 (Reid Hall). Please view the website at <http://www.dso.ufl.edu/drc/> for additional information.

Postbaccalaureate Students

Postbaccalaureate study is for students who have already received a baccalaureate degree and have not been admitted to the Graduate School. Admission for postbaccalaureate enrollment requires a recognized baccalaureate degree (or higher) from a regionally accredited college or university, or an international equivalent based on a 4-year curriculum, a minimum C (2.0) GPA on all junior and senior year undergraduate work, as computed by UF, and a satisfactory conduct record.

International applicants (including those from Puerto Rico) must submit a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: paper=550, internet=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77).

Applicants who meet the following conditions may be exempt from the English language test requirements:

- International students whose native language is English
- International students who have spent at least 1 academic year enrolled full-time in a baccalaureate or post-baccalaureate degree program at a college or university in a country where English is the official language prior to your anticipated term of enrollment at UF.

The Postbaccalaureate Application

Applicants must ensure that official transcripts are sent to the Office of Admissions from each postsecondary institution attended. Applications will not be reviewed until transcripts have been received by the Office of Admissions. Postbaccalaureate applicants may apply for Distance Education programs. Only students who have completed a baccalaureate degree in the College of Education may be admitted to postbaccalaureate status for the purpose of completing a teacher certification program. Other applicants may be admitted to postbaccalaureate status only for a limited time to fulfill prerequisites for admission to a master's program. Applicants with degrees in other fields who are seeking teacher certification, should apply for admission to a master's program in the College of Education.

Postbaccalaureate students may enroll in graduate courses, but graduate credit is not generally accepted by the Graduate School for transfer. It is possible to transfer up to 15 semester credits of graduate course work earned with a grade of A, A-, B+, or B by petition in clearly justified cases and in conformance with regulations on courses and credit.

Proof of immunization for measles and rubella or a tuberculosis skin test is required before registering for coursework.

For more information, visit the Office of Admissions website, <http://www.admissions.ufl.edu/grad/postbacc.html>.

Nondegree Registration

Nondegree enrollment is restricted to participants in special programs, off-campus programs, University-affiliated exchange programs, and those participants with nondegree educational objectives at UF. Students denied admission to UF for any term are not eligible for nondegree registration. Students need prior approval from the academic unit(s) to take courses in a nondegree status. That course work normally is not applied toward the graduate degree if the student is admitted to the Graduate School. By petition in clearly justified cases and in

conformance with regulations on courses and credit, it is possible to transfer up to 15 credits of graduate course work earned with the grade of A, A-, B+, or B. A student should not remain in this classification for more than 1 term before being admitted as a post-baccalaureate or graduate student.

For a nondegree registration request form, click on this link: <http://www.registrar.ufl.edu/pdf/nondegrecapp.pdf>.

Readmission

This information applies only to students who have previously been enrolled in a graduate, postbaccalaureate or professional UF program. Former students who do not enroll at the university for two consecutive terms, including any summer term, must apply for readmission at the same level of their previous enrollment.

Students who wish to take a leave of absence for two or more consecutive terms should obtain written approval from their academic units before they leave. Students who skip a single term will be scheduled automatically for a registration appointment for one additional term.

All readmission applicants must meet the current admission requirements of the college or school they expect to enter. Readmission is not guaranteed and is subject to availability at the level, college and major. Consult the appropriate program's admission requirements. Readmission is for a specific term. If you are unable to enroll for the term for which you have been admitted, you must apply for readmission again to a different term.

Applicants must present a satisfactory record of conduct. Regardless of other qualifications, applicants who have experienced major or continuing difficulties with school or other authorities since their last enrollment at the University of Florida may find their application for readmission denied.

The [readmission application](#) must be completed via a PDF copy and mailed to the Office of Admissions. A non-refundable \$30.00 application fee is required. The application requires you to indicate the college and program/major of your last enrollment at the university as well as the college and major you want to re-enroll or apply to:

Office of Admissions
P.O. Box 2946, University of Florida
Gainesville, FL 32602-2946

For further information:
<http://www.reg.ufl.edu/regadmi.htm>

Faculty Members as Graduate Students

UF faculty in tenured or tenure-accruing lines, as designated by Regulations of the University of Florida, 7.003, normally may not pursue graduate degrees from this institution. Exceptions are made for the Florida Cooperative Extension Service (IFAS) county personnel, the faculty of the P. K. Yonge Laboratory School, and University Libraries faculty. Under certain restrictions established by the Graduate Council, persons holding nontenure- or nonpermanent-status-accruing titles may pursue graduate degrees at UF. Any other exceptions to this policy must be approved by the Graduate Council. Such exceptions, if given, are rare and will only be approved when it is determined to be in the best interest of the University.

Residency for Tuition

Policy and the Guidelines on Florida Residency for Tuition Purposes

Florida Residency for Tuition Purposes is a policy comprised by state statute, and the residency rule adopted by the State Board of Education and the Board of Governors for the State University System. To implement Section 1009.21, Florida Statutes; Rules 6A-10.044 and 6A-20.003, Florida Administrative Code; and 7.005 Board of Governors (BOG) Regulation, the Articulation Coordinating Committee (ACC) adopted a Residency Guidelines document which is maintained by the Statewide Residency Committee; a subcommittee of the ACC. The [Guidelines on Florida Residency for Tuition Purposes](#) are used for the determination of [Initial Residency Classifications](#) and [Residency Reclassifications](#).

Florida Residency for Tuition Purposes Eligibility

A Florida "resident for tuition purposes" is a person who has, or a dependent person whose parent or legal guardian has, established and maintained legal residence in Florida for at least twelve consecutive months preceeding the first day of classes of the term for which Florida residency is sought. Residence in Florida must be as a bonafide domicile rather than for the purpose of maintaining a residence incident to enrollment at an institution of higher education. To qualify as a Florida resident for tuition purposes, you must be a U.S. citizen, permanent resident alien, or legal alien granted indefinite stay by the U.S. Citizenship and Immigration Services (USCIS).

Other persons not meeting the twelve-month legal residence requirement may be classified as Florida resident for tuition purposes only if they fall within one of the limited special categories authorized by the Florida Legislature and State Board of Education. All other persons are ineligible for classification as a Florida "resident for tuition purposes."

Living in or attending school in Florida will not, in itself, establish legal residence. Students who depend on out-of-state parents for support are presumed to be legal residents of the same state as their parents. Residence for tuition purpose requires the establishment of legal ties to the state of Florida. Students must verify that they have broken ties to other states if the student or, in the case for dependent students, his or her parent, has moved from another state.

Initial Residency Classification

The [initial residency classification](#) is determined by the Office of Admissions for all new students, and current or former students who have applied for a new level (e.g. undergraduate to graduate or professional programs) and for those submitting a readmission application after a period of non-enrollment. These applicants must complete the [Initial Residency Classification form](#) with supporting documentation when requested by the institution.

Residency Reclassification

A student wishing to establish residency reclassification should pick up the [Request for Change in Residency Status form](#) from the Office of the University Registrar, 222 Criser Hall, to review the information and items that may be requested when the student files for Florida residency for tuition purposes. The deadline for applying for a change in residency status, including receipt of all documentation, is each term's fee payment deadline. Residency reclassification cannot be applied for retroactively for previous terms.

Guidelines on Florida Residency for Tuition Purposes

You may view the full content of the [Guidelines on Florida Residency for Tuition Purposes](#) online. Excerpts from these guidelines are provided below.

Exceptions and Qualifications

The following categories are statutory exceptions and qualifications for certain applicants who do not meet the twelve month legal residency requirement. Documentation in support of any of the following exceptions will be required.

- Dependent children residing continuously with a legal resident adult relative other than the parent for at least 5 years immediately prior to the first day of classes of the term for which Florida residency is sought.
- Persons married to legal Florida residents and who intend to make Florida their permanent home, and who relinquish their legal ties to any other state.
- Persons who were enrolled as Florida residents for tuition purposes at a Florida public institution of higher education, but who abandon Florida residency and then re-enroll in Florida within 12 months of the abandonment - provided that he/she continuously maintains the re-established domicile during the period of enrollment. (This benefit only applies one time.)
- Active duty members of the Armed Services of the United States residing or stationed in Florida (and spouse/dependent children); active duty members of the Florida National Guard (and spouse/dependent children) who qualify under 250.10(7) and (8); or military personnel not stationed in Florida whose home of record or state of legal residence certificate, DD Form 2058, is Florida (and spouse/dependent children).
- Active duty members of the Armed Services of the United States and their spouses/dependent children attending a public community college or university within 50 miles of the military establishment where they are stationed, if such military establishment is within a county contiguous to Florida.
- United States citizens living on the Isthmus of Panama, who have completed 12 consecutive months of college work at the Florida State University Panama Canal Branch, and their spouses and dependent children.
- Full time instructional and administrative personnel employed by the State public school system, community colleges, and institutions of higher education (and spouse/dependent children).
- Students from Latin America and the Caribbean who receive scholarships from the federal or state government. The student must attend, on a full-time basis, a Florida institution of higher education.
- Southern Regional Education Board's Academic Common Market graduate students attending Florida's state universities.
- Full-time employees of state agencies or political subdivisions of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training
- McKnight Doctoral Fellows and Finalists who are United States citizens.
- United States citizens living outside the United States who are teaching at a Department of Defense Dependent School or in an American International School and who enroll in a graduate level education program which leads to a Florida teaching certificate.
- Active duty members of the Canadian military residing or stationed in this state under the North American Air Defense (NORAD) agreement, and their spouses and dependent children, attending a public community college or university within 50 miles of the military establishment where they are stationed.
- Active duty members of the Armed Services of the United States and their spouses/dependent children attending a public community college or university within 50 miles of the military establishment where they are stationed, if such military establishments is within a county contiguous to Florida.
- Active duty members of a foreign nation's military who are serving as liaison officers and are residing or stationed in this state, and their spouses and dependent children, attending a community college or state university within 50 miles of the military establishment where the foreign liaison officer is stationed.
- Qualified beneficiaries under the Florida Pre-Paid Postsecondary Expense Program per s. 1009.988(2). (Pre-Paid ID Card Required.)
- Linkage Institute participants receiving partial or full exemptions from S. 1009.21, FS, based on criteria approved by the Florida Department of Education per S. 288.8175, FS, which establishes linkage institutes between postsecondary institutions in this state and foreign countries.

Eligible Categories for non-U.S. Citizens

Residency rule 6A-10.044, FAC, and the BOG Residency Regulation Resolution allow certain non-U.S. Citizens such as lawful permanent residents, temporary permanent residents, asylees, parolees, and refugees who have applied for and been approved for such status and who otherwise meet the 12 month legal residence requirements, to be eligible to establish Florida residency for tuition purposes. Provided that the non-U.S. citizen has proof of his or her permanent immigration status, he or she may be classified as a Florida resident 12 months from the time he or she establishes legal Florida residence for tuition purposes (e.g., 12 months from the time he or she purchases a Florida home, obtains a Florida driver's license, etc.). It is not necessary to wait 12 months from the date he or she becomes an eligible alien (e.g., the date of the resident alien card (I-551) is issued).

Review the [Guidelines on Florida Residency for Tuition Purposes](#) for a list of nonimmigrant categories which are eligible to establish Florida residency for tuition purposes.

Dependent or Independent Student

The determination of dependent or independent student status is important because it is the basis for whether the student has to submit his/her own documentation for residency (as an independent) or his/her parent's or guardian's documentation of residency (as a dependent). Evidence that the student meets one of the following criteria will be requested by the higher education institution.

Independent Student

A student who meets any one of the following criteria shall be classified as an independent student for the determination of residency for tuition purposes:

- The student is 24 years of age prior to the start of the term for which residency is sought.
- The student is married.
- The student has children who receive more than half of their support from the student.
- The student has other dependents who live with and receive more than half of their support from the student.
- The student is a veteran of the United States Armed Forces or is currently serving on active duty in the U.S. Armed Forces for purposes other than training
- Both of the student's parents are deceased or the student is or was (until age 18) a ward/dependent of the court of the court or in foster care.
- The student is determined an unaccompanied homeless by a school district homeless liaison, emergency shelter or transitional housing program.
- The student is working on a master's or doctoral degree during the term for which residency status is sought at a Florida institution.

A student who does not meet one of the criteria outlined above may be classified as an independent student only if he or she submits documentation that he or she provides fifty (50) percent or more of the cost of attendance for independent, in-state students as defined by the financial aid office at Florida State University (exclusive of federal, state, and institutional aid or scholarships). When tax returns are collected for the purpose of proving independent status by virtue of providing more than fifty (50) percent of his/her support for the year, the social

security number should be blacked out. However, the income information must be provided to show that this requirement has been met.

Dependent Student

A student, whether or not living with his or her parent, who is eligible to be claimed by his or her parent under the federal income tax code shall be classified as a dependent student. When tax returns are collected for the purpose of proving independent status by virtue of providing support to others, the social security numbers and income figures should be blacked out as the only relevant information of this form relates to whether or not an exemption has been claimed for the student.

Appeals Process

In cases where the applicant expresses a desire to appeal the residency classification, the matter will be referred to the designated residency appeal committee at the institution of higher education, in accordance with the institution's official appeals process.

The residency appeal committee will be comprised of at least three members to consider student appeals in accordance with the institution's official appeal policy. The committee will render to the applicant the final residency determination in writing. The college and/or state university will advise the applicant of the reasons for the determination.

Tuition payments

Florida resident tuition payments are available to graduate assistants and fellows who meet the eligibility requirements. Any change in the student's academic or employment status after processing a tuition payment will result in the original payment being updated, reduced, or voided as appropriate.

Non-Florida resident tuition payments are available to out-of-state students who hold graduate assistantships or fellowships and who meet the eligibility requirements. Any change in the student's academic or employment status after processing a tuition payment will result in the original payment being updated, reduced, or voided as appropriate.

General Regulations

The information in this catalog is current as of July 2014. Please contact individual departments or programs for any additional information or updates.

The student is responsible for becoming informed and observing all program regulations and procedures. The student must be familiar with Graduate Catalog general regulations and requirements, specific degree program requirements, and offerings and requirements of the major academic unit. *Rules are not waived for ignorance.* Any exceptions to the policies stated in the Graduate Catalog must be approved by the Dean of the Graduate School. After admission to the Graduate School, but before the first registration, the student should consult the college and/or the graduate coordinator in the major academic unit about courses and degree requirements, deficiencies if any, and special regulations of the academic unit. The dean (or representative) of the college where the degree program is located must oversee all registrations. Once a supervisory committee is appointed, registration approval is the responsibility of the committee chair.

Key information is contained or disseminated through several electronic sites. Each student **must** regularly check the [Graduate Information Management System \(GIMS\)](#) for accuracy and currency of the degree program and associated milestones. In addition, each student is required to create, maintain, and regularly check a [GatorLink e-mail account](#). Critical information is sent directly to GatorLink accounts.

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Catalog Year

The catalog year determines the set of academic requirements that must be fulfilled for graduation. Students graduate under the catalog in effect when they first enroll as degree-seeking students at UF provided they maintain continuous enrollment. Students who are not registered for 2 or more consecutive terms (including any summer term) must reapply for admission and will be assigned the catalog in effect when enrollment is resumed. With the approval of their college dean's office, students may opt to graduate under the requirements of a later catalog but they must fulfill all graduation requirements from that alternative year. The University will make every reasonable effort to honor the curriculum requirements appropriate to each student's catalog year. However, courses and programs are sometimes discontinued and requirements may change as a result of curricular review or actions by accrediting associations and other agencies.

Classification of Students

| | |
|---|--|
| 6 | Postbaccalaureate students: Degree-holding students who have been admitted to postbaccalaureate status |
| 7 | Graduate students seeking a first master's degree |
| 8 | Graduate students who have earned a master's degree, or who have earned 36 or more credits while seeking a graduate degree, and who have not been admitted to doctoral candidacy |
| 9 | Graduate students who have been admitted to doctoral candidacy |

Confidentiality of Student Records

The University ensures the confidentiality of student educational records in accordance with State University System rules, state statutes, and [FERPA](#), the Family Educational Rights and Privacy Act of 1974, as amended, also known as the Buckley Amendment.

Student directory information that can be released to the public is limited to

- Student name
- Local/permanent addresses
- Listed telephone number(s)
- Email address
- Class and college
- Major
- Enrollment status (e.g., undergraduate or graduate level; full time or part time)
- Dates of attendance at UF
- Degree(s) and awards received at UF
- Most recent previous educational institution attended
- Weight and height of university athletes
- Publication titles (theses and dissertations)
- Nature and place of employment at UF

Currently enrolled students must contact the appropriate agency/agencies **to restrict release of directory information**. The Office of the University Registrar, the Department of Housing and Residence Education, and Human Resource Services routinely release directory information to the public. Directory information may also be released by other university departments and/or employees.

- Students who want to restrict directory information must do so at the Office of the University Registrar in 222 Criser Hall.
- Students who live on campus also must request this restriction from the Department of Housing and Residence Education (next to Beaty Towers).
- Students who are university employees also must request this restriction from Human Resource Services.
- Students who do not want their addresses, phones or personal information published on the Web should update their [directory profile](#).

Student **educational records may be released** without your consent to school officials who have a legitimate educational interest in accessing the records. *School officials* shall include:

- An employee, agent or officer of the university or State University System of Florida in an administrative, supervisory, academic, research or support staff position;
- Persons serving on university committees, boards and/or councils; and
- Persons employed by or under contract to the university to perform a special task, such as an attorney or an auditor.

Legitimate educational interest shall mean any authorized interest or activity undertaken in the name of the university for which access to an educational record is necessary or appropriate to the operation of the university or to the proper performance of the educational mission of the university.

The university also may disclose information from your educational record without your consent to individuals or entities permitted such access under applicable federal and state law.

You have the right to review your own educational records for information and to determine accuracy. A photo I.D., other equivalent documentation or personal recognition by the custodian of record will be required before access is granted. Parents of dependent students, as defined by the Internal Revenue Service, have these same rights upon presentation of proof of your dependent status. Each spring when the catalog is published, students are notified of their [FERPA rights](#).

If you believe your educational record contains information that is inaccurate, misleading or in violation of your rights, you can ask the institution to amend the record. The [UF Student Guide](#) outlines the procedures for challenging the content of a student record, as well as the policies governing access to and maintenance of student records.

If you who believe the university has not maintained the confidentiality of your educational record as required by law, you may file a complaint by contacting the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue SW, Washington, D.C. 20202-5901.

Academic Honesty

In 1995 the UF student body enacted an [honor code](#) and voluntarily committed itself to the highest standards of honesty and integrity. When students enroll at the university, they commit themselves to the standard drafted and enacted by students.

Preamble: In adopting this honor code, the students of the University of Florida recognize that academic honesty and integrity are fundamental values of the university community. Students who enroll at the university commit to holding themselves and their peers to the high standard of honor required by the honor code. Any individual who becomes aware of a violation of the honor code is bound by honor to take corrective action. The quality of a University of Florida education is dependent upon community acceptance and enforcement of the honor code.

The Honor Pledge: We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.

On all work submitted for credit by students at the university, the following pledge is either required or implied: **On my honor, I have neither given nor received unauthorized aid in doing this assignment.**

The university requires all members of its community to be honest in all endeavors. A fundamental principle is that the whole process of learning and pursuit of knowledge is diminished by cheating plagiarism and other acts of academic dishonesty. In addition, every dishonest act in the academic environment affects other students adversely, from the skewing of the grading curve to giving unfair advantage for honors or for professional or graduate school admission. Therefore, the university will take severe action against dishonest students. Similarly, measures will be taken against faculty, staff and administrators who practice dishonest or demeaning behavior.

Student Responsibility. Students should report any condition that facilitates dishonesty to the instructor, department chair, college dean, Student Honor Council or Student Conduct and Conflict Resolution in the Dean of Students Office.

Faculty Responsibility. Faculty members have a duty to promote honest behavior and to avoid practices and environments that foster cheating in their classes. Teachers should encourage students to bring negative conditions or incidents of dishonesty to their attention. In their own work, teachers should practice the same high standards they expect from their students.

Administration Responsibility. As highly visible members of our academic community, administrators should be ever vigilant to promote academic honesty and conduct their lives in an ethically exemplary manner.

Student Conduct Code

Students enjoy the rights and privileges that accrue to membership in a university community and are subject to the responsibilities that accompany that membership. For a system of effective campus governance, it is incumbent upon all members of the campus community to notify appropriate officials of any violations of regulations and to assist in their enforcement. The university's [conduct regulations](#), available to all students, are set forth in Florida administrative code. Questions can be directed to the Dean of Students Office.

Alcohol and Drugs

The use of alcohol and other drugs can have a negative impact on judgments and reactions, health and safety, and may lead to legal complications as well.

The university's principal role is to engage in education that leads to high standards and respectful conduct. When those are compromised, the university will take disciplinary action against organizations and individuals violating either the law or the unreasonable use of alcohol. It also must provide help for students who are alcohol-dependent. The university will deal severely with students convicted of the illegal possession, use or sale of drugs.

What the university community can do to prevent alcohol abuse and drug use: Students can help control substance abuse by declining to use or to condone the use of drugs and by insisting that organizations and individuals use alcohol within the bounds of the law and reasonable conduct. Students should make an effort to prevent persons who have abused alcohol or used drugs from harming themselves or others, especially while driving a motor vehicle. They should encourage those needing professional help to seek it. The same standards and regulations apply equally to faculty, staff and administration.

Relations between People and Groups

One of the major benefits of higher education and membership in the university community is greater knowledge of and respect for other religious, racial and cultural groups. Indeed, genuine appreciation for individual differences and cultural diversity is essential to the environment of learning. Another major aspect of university life involves sexual relationships. Sexual attitudes or actions that are intimidating, harassing, coercive or abusive, or that invade the right to privacy of the individual are not acceptable. Only in an atmosphere of equality and respect can all members of the university community grow.

Service to Others

An important outcome of a University of Florida education should be a commitment to serving other people. This sense of service should be encouraged throughout the institution by faculty, administration, staff and students. Through experience in helping individuals and the community, students can put into practice the values they learn in the classroom.

Standard of Ethical Conduct

Honesty, integrity and caring are essential qualities of an educational institution, and the concern for values and ethics is important to the whole educational experience. Individual students, faculty and staff members, as well as the university's formal organizations, must assume responsibility for these qualities. The concern for values and ethics should be expressed in classes, seminars, laboratories and in all aspects of university life. By definition, the university community includes members of the faculty, staff and administration as well as students.

Education at the University of Florida is not an ethically neutral experience. The university stands for, and seeks to inculcate, high standards. Moreover, the concern for values goes well beyond the observance of rules.

A university is a place where self-expression, voicing disagreement and challenging outmoded customs and beliefs are prized and honored. However, all such expressions need to be civil, manifesting respect for others.

As a major sector in the community, students are expected to follow the university's rules and regulations that, by design, promote an atmosphere of learning. Faculty, staff and administrators are expected to provide encouragement, leadership and example. While the university seeks to educate and encourage, it also must restrict behavior that adversely affects others. The Standard of Ethical Conduct summarizes what is expected of the members of the university community.

Registration Requirements

The University of Florida operates on a semester system consisting of two 16-week terms and two 6-week summer terms. One semester credit equals 1.5 quarter credits. "Term" is used hereafter, instead of "semester".

Required Full-Time Registration

| | Fall and Spring | Summer | | |
|---|-----------------|--------|------|---|
| | | A | B | C |
| Full-time graduate students not on appointments | 9-12 | 4 | 4 | 8 |
| Fellows receiving \$4,000 or more per term*, and trainees | 12 | 4 | 4 | 8 |
| Assistants on .25 to .74 FTE | 9 | 3 | 3 | 6 |
| Assistants on .75 to .99 FTE | 6 | 2 | 2 | 4 |
| Full-time assistants: | | | | |
| 1.00 Fall & Spring | 3 | | | |
| 1.00 Summer A | | 2 | or | 2 |
| 1.00 Summer B | | | 2 or | 2 |
| 1.00 Summer C | | 1 and | 1 or | 2 |

Graduate students on appointment: Required registration for fellows and trainees with stipends of \$4,000 or greater per term (*prorated for summer as \$1,500 for Summer A, or \$1,500 for Summer B, or \$3,000 for Summer C) is 12 credits for fall and spring 8 credits for summer. Fellows whose stipends are less than \$4,000 must register for at least 3 credits during fall and

spring terms, and 2 credits for summer. The full-time registration requirement is reduced for students who are graduate assistants: 9 credits for fall and 9 credits for spring. Summer A appointments must be registered for 3 credits, and Summer B appointments must be registered for 3 credits. For students on appointment for Summer C, registration must equal 6 credits. This may be any combination of A, B or C, but cannot be all in A or all in B. (See Academic Personnel website, <http://www.hr.ufl.edu/academic/regrequirements.asp>, for more specific details for summer terms).

Students on appointment are financially liable for excess credits beyond the required registration. If a student on appointment drops below the required registration at any time in the semester, the student becomes financially liable for the entire registration. Students who do not register properly are not permitted to remain on appointment.

Full-time registration is 9 to 12 credits. However, most fellows must be registered for 12 credits in fall or spring and 8 credits in summer. Students not on an appointment may want to enroll full time to finish their degrees in the minimum time frame or may be required to enroll full time by external funding agencies or their academic units.

Registration for fewer than 9 to 12 credits may be considered equivalent to full-time enrollment in specific circumstances, such as internships or fieldwork required for all students within the degree program, or [lockstep programs](#) (e.g., M.B.A.). On academic unit request, the Graduate School will certify specified students as full-time equivalent under the circumstances stated in the [Graduate Council Policy Manual](#).

Part-time registration: Students not on an appointment and without a specific registration requirement by the academic unit, external funding agency, or government may register as a part-time student. Minimum registration is 3 credits in fall or spring and 2 credits in summer.

Part-time registration and financial aid: Graduate students should be aware that in order to qualify for most financial aid programs (federal, state, or institutional), students must be enrolled at least half time. For financial aid purposes, a grad student must be enrolled for five hours during fall or spring term, four hours during summer term. In addition, due to limited funds, priority is generally given to full-time students.

For more information: <http://www.sfa.ufl.edu/receiving/enrollment-requirements>

Employee registration: UF staff employed on a permanent, full-time basis may be permitted to waive fees up to a maximum of 6 credits per term on a space-available basis. Enrollment is limited to courses that do not increase direct costs to the University. Courses that increase direct costs can include TBA (to be arranged), computer courses, individualized courses, distance learning, internships, and dissertation and master's thesis courses. Laboratory courses are permitted on a space available basis.

For updated information: <http://www.hr.ufl.edu/>

Undergraduate registration in graduate courses: Upper-division undergraduate students may enroll in 5000-level courses with consent of the instructor. Normally, a student must have a GPA of at least 3.00. To enroll in 6000-level courses, a student must have senior standing, consent of the instructor, and an upper-division GPA of at least 3.00.

After a student is accepted to graduate school, up to 15 credits of graduate-level courses earned with a letter grade of B or better taken under this provision may be applied toward a graduate degree at UF, if credit for the course has not been used for an undergraduate degree, and if the transfer is approved by the academic unit and made as soon as the student is admitted to a graduate program.

Final term registration: During the term the final examination is given and during the term the degree is awarded, a student must be registered for at least 3 credits in fall or spring and 2 credits in summer. Thesis students must enroll in 6971 and doctoral students must enroll in 7980. Non-thesis students must enroll in course work that counts toward the graduate degree. Students on a fellowship, traineeship, or assistantship must be registered appropriately for their appointments.

Clear prior: Clearing prior status is only possible for thesis and dissertation students who have met all published deadlines for the current term except Final Submission and/or Final Clearance from the Graduate Editorial Office. No other students are eligible. Clear Prior permits students to be exempt from registration for the term in which the degree will be awarded. Although not required to register during the term of degree award, students are required to file a new degree application for that term within all published deadlines for doing so, as degree applications do not carry over from semester to semester and are essential for the degree to be awarded.

A student requesting to clear prior must meet ALL of the following criteria:

1. Student has successfully submitted a degree application for the current term within the published deadlines, as confirmed by print screen available from ISIS.
2. Student has appropriately satisfied the current term registration.
3. Student has successfully met the current term first submission deadlines for the thesis or dissertation, as confirmed by the Editorial Office, via a confirmation e-mail to the student and committee chair.
4. Student has successfully met all other degree and administrative requirements, within the published deadlines for the current term, except Final Submission and/or Final Clearance with the Graduate School Editorial Office.
5. Student is in the process of finalizing the thesis or dissertation with the Graduate School Editorial Office. No other students are eligible.

Drop/add: Courses may be dropped or added during drop/add without penalty. This period usually lasts 5 UF business days in the fall and spring semesters or 2 business days for summer semesters, starting with the first day of the term. Classes that meet for the first time after drop/add may be dropped without academic penalty or fee liability by the end of the next business day after the first meeting. This does not apply to laboratory sections. After this period, a course may be dropped and a W appears on the transcript. Students become financially liable for any course added or dropped after the deadline, including students with tuition waivers. Prior to the last day of classes for each term, students should personally verify all registration changes and any required adjustments online on ISIS. Retroactive drop/add will not be permitted.

Retaking courses: Graduate students may repeat courses in which they earn failing grades. Grade points from both the initial failed attempt and the first attempt earning a grade of C or better are included in computing the grade point average. The student receives credit for the satisfactory attempt only.

Tuition/Fee Waivers

The appointment must be awarded through the UF payroll system. Each term a payment is received: 1) the appointment must conform with the published academic year appointment calendar dates, 2) an assistant or associate appointment must be a minimum of .25 FTE (quarter-time) but not more than 1.0 FTE (full-time), 3) a fellowship must pay a minimum of \$4,000 per term (prorated for summer term at \$1,500 for Summer A, \$1,500 for Summer B, or \$3,000 for Summer C)

These tuition waivers will apply toward the number of registration credits required for the appointment. Credits to which the tuition waiver applies must count toward the degree and may not include audited courses, correspondence work, DOCE courses, or courses designated as "self-funded" by the Registrar.

Attendance Policies

Students are responsible for meeting all academic objectives as defined by the instructor. Absences count from the first class meeting. In general, acceptable reasons for absences from class include illness, serious family emergencies, special curricular requirements, military obligation, severe weather conditions, religious holidays, and participation in official University activities. Absences from class for court-imposed legal obligations (e.g., jury duty or subpoena) must be excused. Other reasons also may be approved.

Students may not attend classes unless they are registered officially or approved to audit with evidence of having paid audit fees. After the end of drop/add, the Office of the University Registrar provides official class rolls/addenda to instructors. Students who do not attend at least one of the first 2 class meetings of a course or laboratory in which they are registered and who have not contacted the academic unit to indicate their intent may be dropped from the course. **Students must not assume that they will automatically be dropped if they fail to attend the first few days of class.** The academic unit will notify students dropped from courses or laboratories by posting a notice in the academic unit office. Students may request reinstatement on a space-available basis if documented evidence is presented. The University recognizes the right of the individual professor to make attendance mandatory. After due warning, professors may prohibit further attendance and then assign a failing grade for excessive absences. Students who have registration changes, at any time during the semester, should verify their registrations before the last day of class of the term. Retroactive drop/add or other registration changes will not be permitted.

Change of Graduate Degree Program

To change majors or degree level (same or different college), the academic unit must add the degree segment for graduate students via the Graduate Information Management System (GIMS). Only an authorized representative of the new academic unit and college can add the degree segment to a graduate student's record in GIMS. In order to do this, pull up the student's record in GIMS and click the green plus button that says "Add Degree Segment". A wizard-like interface will open up that will guide you through the adding segment process.

If the student is no longer pursuing a graduate degree program, an academic unit must drop the degree segment via GIMS. Only an authorized representative of the academic unit and college can drop the degree segment on a graduate student's record. In order to do this, pull up the student's record in GIMS and click the Drop Segment under the Actions icon of the degree segment. A pop-up smaller window will appear that will guide you through the dropping segment process.

Any changes to degree programs, including thesis/non-thesis/project option, MUST occur before the published midpoint deadline of the student's final term.

Courses and Credits

Undergraduate courses (1000-2999) may not be used to satisfy any graduate degree requirements. All 1000- and 2000-level courses may be taken on a satisfactory/unsatisfactory (S/U) basis.

Six credits of undergraduate courses (3000-4999) outside the major may count when taken as part of an approved graduate program. Consult the Academic Unit before registering.

Courses numbered 5000 and above are limited to graduate students, with the exception described under *Undergraduate Registration in Graduate Courses*. Courses numbered 7000 and above are normally for advanced graduate students.

No more than 5 credits each of 6910 (Supervised Research) and 6940 (Supervised Teaching) may be taken by a graduate student at UF. Students who have taken 5 credits of 6910 cannot take 7910; the rule also applies to 6940 and 7940. Courses numbered 7979 and 7980 are not eligible to count toward a master-level degree program.

Audited courses at any level do not count toward any graduate degree requirements.

For a complete list of approved graduate courses, see [the Programs Section of this catalog](#). Academic units decide which of these graduate courses to offer in a given term. Contact the academic unit for information on available courses.

Generally, graduate courses may not be repeated for credit. However, there is no limit on courses numbered 6971 (but the Graduate School will only count a maximum of 6 credits of 6971 toward a thesis master's-level degree), 6972, 6979, 7979, and 7980. Other courses repeated for credit indicate "max" **after the single term credit**, as listed in [the Programs Section of this catalog](#).

Professional course work: Graduate students may receive credit toward their degrees for courses in professional programs (e.g., J.D., D.V.M., or M.D.) when their advisers and graduate coordinators certify that the course work is appropriate for their programs and when the students receive permission from the academic units and colleges offering the courses. The courses must be letter-graded and earned with a grade of B or better. However, the associated grades in these professional courses are not included in the calculations of the overall GPA, major GPA, and minor GPA. A list of UF professional courses for each student must be filed with Graduate Student Records (106 Grinter) on or before the midpoint deadline within the intended term of degree award. Professional courses earned at other institutions must be approved by the Graduate School via the transfer credit process. In all cases, these credits are limited to a maximum of 9 credits toward the master's degree and 30 credits toward the doctorate.

Grades

Passing, Non-Punitive and Failing Grades: The Office of the University Registrar records student grades. The word "credit" refers to one semester hour, generally representing one hour per week of lecture or two or more hours per week of laboratory work.

The only passing grades for graduate students are A, A-, B+, B, B-, C+, C, and S. Grades of B-, C+ or C count toward a graduate degree if an equal number of credits in courses numbered 5000 or higher have been earned with grades of B+, A- and A, respectively. Grade points are not given for S and U grades; S and U grades are not used to calculate grade point averages. All letter-graded courses eligible to count toward the graduate degree, except 1000- and 2000-level courses, are used to calculate the cumulative grade-point average. Letter grades of C-, D+, D, D- or E are not considered passing at the graduate level, although the grade points associated with these letter grades are included in grade point average calculations.

Satisfactory/Unsatisfactory: Grades of S and U are the only grades awarded in courses numbered 6910 (Supervised Research), 6940 (Supervised Teaching), 6971 (Research for Master's Thesis), 6972 (Engineer's Research), 7979 (Advanced Research), and 7980 (Research for Doctoral Dissertation). Additional courses for which S and U grades apply are noted in the academic unit offerings in [the Programs Section of this catalog](#).

All language courses regardless of level may be taken S/U if the student's major is not a language and the courses are not used to satisfy a minor, with approval from the student's supervisory committee chair and the instructor of the course. S/U approval should be made by the published deadline date. All 1000 and 2000 level courses may be taken S/U. No other courses (graduate, undergraduate, or professional) may be taken for an S/U grade.

Deferred grade H: The grade of H is not a substitute for a grade of S, U, or I. Courses for which H grades are appropriate must be so noted in their catalog descriptions, and must be approved by the Graduate Curriculum Committee and the Graduate School. This grade may be used only in special situations where the expected unit of work may be developed over a period of time greater than a single term. All grades of H must be removed before a graduate degree can be awarded.

Incomplete grades: Grades of I (incomplete) received during the preceding term should be removed as soon as possible. Grades of I carry zero grade points and become punitive after 1 term. All grades of I must be removed or petitioned before a graduate degree can be awarded.

Grades and Grade Points Prior to Summer A 2009

| A | B+ | B | C+ | C | D+ | D | E | WF | I | NG | S-U |
|-----|-----|-----|-----|-----|-----|-----|---|----|---|----|-----|
| 4.0 | 3.5 | 3.0 | 2.5 | 2.0 | 1.5 | 1.0 | 0 | 0 | 0 | 0 | 0 |

Grades and Grade Points Effective Summer A 2009

| A | A- | B+ | B | B- | C+ | C | C- | D+ | D | D- | E | WF | I | NG | S-U |
|-----|------|------|-----|------|------|-----|------|------|-----|------|---|----|---|----|-----|
| 4.0 | 3.67 | 3.33 | 3.0 | 2.67 | 2.33 | 2.0 | 1.67 | 1.33 | 1.0 | 0.67 | 0 | 0 | 0 | 0 | 0 |

Note: The degree-granting college may require a minimum grade of C in particular courses. GPA calculations are truncated (not rounded) and displayed on the transcript to the hundredths place.

Non-Punitive Grades and Symbols:
Zero Grade Points—Not Counted in GPA

W= Withdrew

U= Unsatisfactory

H= Deferred grade assigned only in approved sequential courses or correspondence study

N* = No grade reported

I* = Incomplete

Failing Grades:

Zero Grade Points—Counted in GPA

E= Failure

WF= Withdrew failing

NG= No grade reported

I= Incomplete

Unsatisfactory Progress or Unsatisfactory Scholarship

Any graduate student may be denied further registration if progress toward completing the program becomes unsatisfactory to the academic unit, college, or Dean of the Graduate School. Unsatisfactory scholarship is defined as failure to maintain a B average (3.00) in all work attempted. Graduate students need an overall GPA of 3.00 truncated and a 3.00 truncated GPA in their major (and in the minor, if a minor is declared) at graduation. Students with less than a 3.00 GPA may not hold an assistantship or fellowship.

Foreign Language Examination

A foreign language examination is not required for all degree programs. For specific information on foreign language requirements, contact the graduate coordinator of your academic unit.

Examinations

The student must register for sufficient and appropriate graduate credits during the term any examination is taken. The student's supervisory committee is responsible for administering the written and oral qualifying examinations and the final oral examination for the defense of the thesis, project, or dissertation.

On rare occasion by virtue of scheduling conflicts beyond the control of the student, examinations may occur on days between terms (break period) with the approval of the supervisory committee. This approval does not, by any means, replace existing requirements to meet published registration and deadlines for degree certification in a particular term.

Qualifying Examinations and Final Examinations administered during a break period are only valid if the student was enrolled in at least one of the terms on either side of the break. The examination will always be associated with the term immediately preceding the break, provided the student was enrolled for that term. Otherwise, the examination will be associated with the term immediately following the break.

All members of the supervisory committee must sign the appropriate forms, including the Electronic Thesis and Dissertation (ETD) Signature Page, for the student to meet the requirements of the examination. The signed forms are to remain in the student's folder in the academic unit. Electronic information will be sent to the Graduate School via the Graduate Information Management System (GIMS) for the Final Exam Form and UF Publishing Agreement, once the student successfully defends. The signed ETD Signature Page should be held by the Academic Unit until all Committee stipulations have been met regarding the document; however, it should be posted electronically to GIMS no later than the Final Submission Deadline for the intended term of degree award.

The qualifying and comprehensive oral examinations and the oral defense of a thesis, project or dissertation may be conducted using video and/or telecommunications. It is required that the student and chair or co-chair must be in the same physical location. All other members may participate from remote sites via technological means.

Supervisory Committees or academic units may set their own standards for attendance at oral examinations that exceed the minimum requirement stated above.

Students are responsible for coordinating the scheduling of oral examinations with their committee or academic unit and must follow the policies set by their committee or academic unit, and the Graduate School.

The written comprehensive examination for the non-thesis master's degree may be taken at a remote site.

Preparation for Final Term

The student is responsible for meeting all requirements and observing every deadline. Deadlines are given in this catalog, in the Graduate Student Handbook, and online at the Graduate School website.

Thesis and Dissertation students: When the thesis or dissertation is ready to be put in final form for submission to the Graduate School, the student should review the Format Requirements of the [Graduate School Editorial Office](#) and should work with the [Application Support Center](#) to format the document in order to meet the minimum submission requirements of the Editorial Office. The Application Support Center offers students assistance with troubleshooting their documents free of charge. The Center also provides more extensive formatting and pdf-conversion services for reasonable fees to the student. It is highly recommended that all students writing theses and dissertations use their services, in order to alleviate some of the stress felt during the approval process.

All students: Students must submit a [Degree Application](#) on ISIS before the published deadline of the term and must meet minimum registration requirements. **Degree Applications do not carry over from one semester to the next.** If the degree is not awarded, the student must 1) request that his or her academic unit remove their name from the current term degree list 2) re-apply for the degree award via ISIS in a subsequent term, by the published deadline for that term; and 3) meet all other requirements for the term the degree will be awarded. These requirements also apply when a thesis or dissertation student has been approved to clear prior by the Graduate School Editorial Office.

Verification of Degree Candidate Status

This service is provided until 3 weeks before graduation. However, students who before that time have completed all requirements for the degree, filed the fully signed final examination report in GIMS and achieved final clearance of the thesis or dissertation, may request verification to that effect. [Verification of Degree Candidate Status Request Forms](#) are filled out by the candidate; signed by the supervisory committee chair, department chair, college dean, and the Graduate School Editorial Office (224 HUB); then given to Graduate Student Records (106 Grinter Hall), for verification and processing.

Although a student may have fulfilled academic requirements, the degree is not awarded until the Graduate School certifies the degree to the University Registrar. That is done at the end of fall, spring, and Summer C terms for all students who completed degree requirements and applied to graduate. Some employers and licensure boards require the degree statement on the transcript, which is available the day after certification in December, May, and August.

Awarding of Degrees

The Graduate School authorizes a candidate to be awarded the degree appropriate to the course of study under the following conditions (see degree descriptions for details):

- The candidate must have completed all course requirements, including an internship or practicum if required, in the major and minor fields while observing time limits and limitations on transfer credit, on nonresident work, and on level of course work.
- The candidate's grade point averages must be at least B (3.00, truncated) in the major and overall (all courses eligible to count toward the graduate degree), including a minor where appropriate.
- All grades of I, H, and X must be resolved. Grades of I, X, C-, D+, D-, E, and U require a written petition from the Academic Unit to the Dean of the Graduate School.
- The candidate must have satisfactorily completed all required examinations (qualifying, comprehensive, and final) and be recommended for the degree by the supervisory committee, major academic unit, and college.
- The dissertation or thesis must have been approved by the supervisory committee and accepted by the Graduate School. Projects must be approved by the academic unit, which then certifies completion to the Graduate School.
- Recommendations for awarding a degree include meeting all academic and professional qualifications as judged by the faculty of the appropriate academic unit.
- All requirements for the degree must be met while the candidate is a registered graduate student. Degrees are certified 3 times per year: December, May, and August.

Attendance at Commencement

Graduates who are to receive advanced degrees are urged to attend Commencement to accept in person the honor indicated by the appropriate hood. Through the University Bookstore, the student may arrange to rent or buy the proper academic attire to be worn at Commencement.

Financial Information

The information in this catalog is current as of July 2014. Please contact individual programs for any additional information or changes.

[Fees](#)

[General Fiscal Information](#)

[Past Due Student Accounts](#)

Fees

Application Fee

An individual who applies for admission to the University of Florida shall pay a non-refundable application fee of \$30.00. While personal checks are accepted, the preferred method of payment is an online MasterCard, Visa, or American Express credit card payment, which can be transmitted electronically on ISIS, the university's secure web site. Please note that if paying by credit card, a \$1.75 service fee will automatically be added to the \$30 fee, so the total application fee is \$31.75.

Registration and Tuition Fees Liability

Pursuant to Section UF-3.037(1) Regulations of the University of Florida, registration shall be defined as consisting of two components: a) formal enrollment in one or more credit courses approved and scheduled by the university; and b) fee payment or other appropriate arrangements for fee payment (deferment or third-party billing) for the courses in which the student is enrolled as of the end of drop/add date.

Registration must be completed on or before the date specified in the university calendar. Students are not authorized to attend class unless they are on the class roll or have been approved to audit. Unauthorized class attendance will result in tuition fee liability.

In addition to the matriculating term, a student must be registered during the terms of the qualifying examination and the final examination, and during the term the degree is awarded.

Tuition Fee Liability – Pursuant to Section UF-3.037(2) Regulations of the University of Florida, a student is liable for all tuition fees associated with all courses for which the student is registered, at the end of the drop/add period or for which the student attends after that deadline. The fee payment deadline is 3:30 p.m., on the second Friday after classes begin.

Assessment of Tuition Fees

Pursuant to Section UF-3.0375 Regulations of the University of Florida, tuition shall be assessed on residency, first enrolled term of the current degree, course level and degree program. In some instances, tuition waivers accompanying assistantships or fellowships include only the matriculation fee and where applicable the non-resident fee. All other fees must be paid by the student.

To estimate your tuition fees and determine your student status, visit the University Bursar [website](#).

Students can pay their own tuition fees on the secure myUFL portal: my.ufl.edu. Login then select Main Menu > My Campus Finances > Make a Payment.

To estimate your tuition fees and determine your student status, visit the University Bursar website.

Lack of written notification of the tuition fee debt does not negate the student's responsibility to pay by the published fee payment deadline.

University personnel will not be held accountable for assessment or accuracy of calculations.

For purposes of discussion, the word *term* refers to the fall semester, the spring semester and any of the summer semesters. Definitions of *first enrolled term of the current degree program* are as follows: (UF-3.0375 Regulations of the University of Florida):

Fall 2014 Tuition Fee Criteria

- A first-time admitted and enrolled degree-seeking student registered for Fall 2014, Spring 2015 or Summer 2015 term.
- A UF graduate admitted to a new degree program or upon the student's admission or readmission to a degree program requiring a new application for Fall 2014, Spring 2015 or Summer 2015 term.
- A former student who is readmitted for Fall 2014, Spring 2015 or Summer 2015 term after an absence of two or more consecutive terms, excluding military withdrawals.
- A non-degree seeking student.

Fall 2013 Tuition Fee Criteria

- A first-time admitted and enrolled degree-seeking student registered for Fall 2013, Spring 2014 or Summer 2014 term.
- A UF graduate admitted to a new degree program for Fall 2013, Spring 2014 or Summer 2014 term.
- A former student who is readmitted for Fall 2013, Spring 2014 or Summer 2014 term after an absence of two or more consecutive terms, excluding military withdrawals.

Fall 2012 Tuition Fee Criteria

- A first-time admitted and enrolled degree-seeking student registered for Fall 2012, Spring 2013 or Summer 2013 term.
- A UF graduate admitted to a new degree program for Fall 2012, Spring 2013 or Summer 2013 term.
- A former student who is readmitted for Fall 2012, Spring 2013 or Summer 2013 term after an absence of two or more consecutive terms.

Fall 2011 Tuition Fee Criteria

- A first-time admitted and enrolled degree-seeking student registered for Fall 2011, Spring 2012 or Summer 2012 term.
- A UF graduate admitted to a new degree program for Fall 2011, Spring 2012 or Summer 2012 term.
- A former student who is readmitted for Fall 2011, Spring 2012 or Summer 2012 term after an absence of two or more consecutive terms.

Fall 2010 and Prior Term Tuition Fee Criteria: Refer to UF-3.0375 Regulations of the University of Florida.

Assessment of Student Fees

Activity and Service Fee (UF-3.3072 Regulations of the University of Florida) - All students must pay an activity and service fee that is assessed on a per credit hour basis and is included in the basic rate per credit hour.

Athletic Fee (UF-3.3072 Regulations of the University of Florida) - All students must pay an athletic fee that is assessed on a per credit hour basis and is included in the basic rate per credit hour. Graduate research and teaching assistants enrolled for eight (8) or more credit hours during the fall or spring semesters and all other students enrolled for nine (9) or more credits can purchase athletic tickets at the student rate.

Health Fee (UF-3.0372 Regulations of the University of Florida) - All students must pay a health fee that is assessed on a per credit hour basis and is included in the basic rate per credit hour. The health fee maintains the university's Student Health Care Center and is not part of any health insurance a student may purchase.

Technology Fee (UF-3.3075 Regulations of the University of Florida) - All students must pay a technology fee that is assessed on a per credit hour basis and is included in the basic rate per credit hour.

Transportation Access Fee (UF-3.0372 Regulations of the University of Florida) - All students must pay a transportation access fee that is assessed on a per credit hour basis and is included in the basic rate per credit hour.

Material and supply fee (UF-3.0374 Regulations of the University of Florida) - Material and supply fees are assessed for certain courses to offset the cost of materials or supply items consumed in the course of instruction. Material and supply fee information is available from the academic departments or from the course schedule.

Audit Fee (UF-3.0376(18) Regulations of the University of Florida): Tuition is assessed at the applicable resident or non-resident per credit hour cost as set forth in Regulation UF-3.0375.

Diploma Replacement Fee (UF-3.0376(13) Regulations of the University of Florida): Each diploma ordered after a student's initial degree application can result in a diploma replacement charge not to exceed \$10.

Transcript Fee (UF-3.0376(12) Regulations of the University of Florida): An official transcript for current undergraduate, graduate and professional students can be purchased for a fee of \$6. Cost for a non-enrolled student and a student who has not been registered at the university for two or more terms is \$12. The university releases only complete academic records.

Registration for Zero Hours (UF-3.0376(17) Regulations of the University of Florida): The student is assessed the applicable resident or non-resident cost as set forth in Rule 6C1-3.0375, for one credit hour.

Off-campus Educational Activities (UF-3.0376(19) Regulations of the University of Florida): The president of the University of Florida or the president's designee will establish fees for off-campus course offerings when the location results in specific identifiable increased costs to the university. These fees will be in addition to the regular tuition fees charged to students enrolling in these courses on campus. The additional fees charged are for the purpose of recovering the increased costs resulting from off-campus vs. on-campus offerings. As used herein, off campus refers to locations other than regular main campus, branch campuses and centers.

Library processing fee: Students pay \$12.80 in their final term for the administrative costs of processing the thesis or dissertation through the UF Libraries. This fee will appear and is payable on the student account on my.ufl.edu only after making first submission of their thesis or dissertation to the Graduate School Editorial Office.

Architecture project students should contact their department regarding the project option fee and how this fee will be processed.

Microfilm fee: Dissertation students must pay a \$25.00 microfilm fee for Traditional Publishing with ProQuest/UMI for archiving and publication services. This fee will appear and is payable on the student account on my.ufl.edu only after making first submission to the Graduate School Editorial Office.

Payment of Tuition Fees

Tuition fees are payable on the dates listed in the academic calendar. Deadlines are enforced. Tuition fee payments are processed by **University Bursar**. Payments sent via U.S. mail must be received in the university cashier's office by the established fee payment deadline. The deadline date is a receipt date, not a postmark date.

According to university policy, university cashiers will accept checks only for the amount due in payment of tuition fees, accounts receivable; such as laser print, parking decals, library fines, loans and other student debts. International checks from other countries must be payable through a United States bank in U.S. dollars. The university can refuse two-party checks, altered checks and checks that will not photocopy. The university does not have the authority to waive late payment fees unless extraordinary circumstances warrant such a waiver or the university is primarily responsible for the delinquency.

Online payment navigation for tuition fees and other charges can be made via the my.ufl.edu portal by selecting Main Menu > My Campus Finances > Make-a-Payment.

Students making payments with a mobile device should access m.ufl.edu and then select Make a Payment.

Payment options on my.ufl.edu:

- Electronic check; there is no service charge for the electronic check payments.
- Credit cards: MasterCard, Discover, American Express, or Visa will include a 2.6 percent service charge for tuition fees and accounts receivable charges (e.g., laser print, library fines, parking decals, etc.).
- International wire transfer: the International Payment option, which is a wire transfer, provides a competitive rate of exchange for many international currencies.
- In person payments: Check, money order, or cashier's check. International paper checks or demand drafts must be drawn on a U.S. bank in U.S. dollars and amounts cannot be greater than the amount due. Any payment that is more than the amount due will not be refunded and automatically will be applied to a future debt.

Cash and debit cards are not payment options.

Returned Payments

Returned electronic checks or paper checks will be charged a service fee of \$25 if the returned payment is less than \$50; \$30 if the returned payment is \$50.01 - \$299.99 and \$40 if the returned payment is \$300 or more. Payments for returned electronic check payments returned paper checks, and the returned service fee must be paid by money order or cashier's check.

A \$10 service fee will be charged if the bank information provided for the electronic check payment is inaccurate for electronic funds transfer. Payment for this type of return does not require a money order or a cashier's check.

All financial obligations to the University will be applied on the basis of age of the debt. The oldest debt will be paid first.

All charges noted in this catalog may be subject to change without notice.

Late Registration/Late Payment Fees

Late Registration Fee (UF-3.037(3) Regulations of the University of Florida): Any student who fails to register prior to the late registration date published in the academic calendar will be subject to the late registration fee of \$100.

Late Payment Fee (UF-3.037(4) Regulations of the University of Florida): Any student who fails to pay all tuition fees due or to make appropriate arrangements for tuition fee payment (deferment or third party billing) by the tuition fee-payment deadline published in the academic calendar will be subject to the \$100 late payment fee.

Waiver of Late Fees: A student who believes that a late fee should not be assessed because of university error or extraordinary circumstances that prevented all conceivable means of compliance by the deadline may petition for a waiver. Late registration - Office of the University Registrar; Late payment fee - University Bursar. The university reserves the right to require documentation to substantiate these circumstances.

Deadlines are enforced. The University does not have the authority to waive late payment fees unless extraordinary circumstances warrant such waiver or the University is primarily responsible for the delinquency.

Deferments/Waivers

Deferment of Tuition Fees: Deferment of tuition fees extends the payment deadline for a specific term. A tuition fee deferment is granted based on information from Student Financial Affairs (financial aid deferments), the Office of the University Registrar (veterans), or HR Academic Personnel/Provost (graduate students with an active letter of appointment-LOA). Refer questions on eligibility to the appropriate office.

Waiver of Tuition Fees

Graduate and Fellowship Waivers: Departments may provide Letters of Appointment (LOA) and tuition waivers to teaching, research, graduate assistants, and fellowship students. Contact your department personnel with questions on these waivers.

Employee Education Waivers: University of Florida, State of Florida, and Santa Fe College employees refer to HR website <http://www.hr.ufl.edu/education/cep/default.asp>.

State of Florida Waiver Eligibility: As provided by State of Florida Statutes; <http://www.leg.state.fl.us/statutes>; 1009.26 and UF Regulations; <http://regulations.ufl.edu/>.

The non-Florida student financial aid fee may not be waived for students receiving an out-of-state fee waiver.

Nonpayment of Tuition Fees (UF-3.037 Regulations of the University of Florida) - The university shall temporarily suspend further academic progress of any student who has not satisfied the entire balance of his/her fee liability by the established deadlines. This will be accomplished by placing a financial hold on the student's record, which will prevent the student from receiving grades, transcripts and/or diploma, and the student's registration will be denied for future terms until the account has been satisfied.

Students who have not paid any portion of their tuition fee liability by the established university payment deadline will continue to be held fee liable for these courses, but will not be allowed to attend these courses until payment is made in full and the student has been re-registered.

To re-register for courses, students must submit a completed petition to the Office of the University Registrar for review by the University Student Petitions Committee. Students who re-register after being withdrawn for nonpayment of tuition fees will be subject to both late registration and late payment fees.

Refund of Tuition Fees

The following may constitute a tuition refund:

- Credit hours dropped during drop/add.
- Courses cancelled by the university.
- Call to active military duty.
- Death of the student or member of the immediate family (parent, spouse, child, sibling).
- Illness of the student of such severity or duration, as confirmed in writing by a physician, that completion of the semester is precluded.
- Exceptional circumstances, upon approval of the university president or his designee.

A refund of 25% of the total fees paid (less late fees) is available for withdrawal of enrollment from the university prior to the established deadlines listed in the academic calendar.

Refunds are issued by University Bursar and will be applied against any university debts. The university reserves the right to set minimum amounts for which refunds will be produced for overpayments on student accounts.

Tuition overpayments due to cancellation, withdrawal or termination of attendance for students receiving financial aid will first be refunded to the appropriate financial aid programs. If the student is a recipient of federal financial aid, federal rules require that any unearned portion of the federal aid must be returned to the U.S. Department of Education.

The amount the student has earned is based on the number of days the student attended classes as compared to the number of days in the entire term (first day of classes to the end of finals week). Any remaining overpayment then will be returned according to university policy.

Direct Deposit Requirement: Due to the university's continuing support for sustainable practices, as well as the costs associated with producing, mailing, and tracking undelivered checks, direct deposit is now required for the delivery of refunds, whether financial aid or student overpayments. This electronic method will deposit any overpayments to the student's checking account. Students must give authorization their my.ufl.edu, select Main Menu, My Campus Finances, then Direct Deposit- Student or PLUS to have overpayments electronically credited to a U.S. bank or other U.S. financial institution checking account.

General Fiscal Information

Students can pay online at my.ufl.edu the exact amount of tuition fees and/or other amounts owed the university. The online payment system at my.ufl.edu accepts the following payment methods: American Express, MasterCard, Discover, or Visa credit cards and electronic checks from checking and international payments via wire transfer. Students making payments with a mobile device should access m.ufl.edu and then select Make a Payment. Students can pay at the University Bursar office with personal checks, cashier's checks and money orders, which can be placed in the 24-hour drop box located outside 113 Criser Hall. Payments on all financial obligations to the university will be applied on the basis of age of the debt. The oldest debt will be paid first.

University Bursar is not able to accept cash or debit card payments and does not cash checks or make cash refunds.

It is the student's responsibility to maintain a correct [current address](#) in the UF directory.

Address changes should be made online at my.ufl.edu: from the Main Menu > My Campus Finances > Student Center.

Past-Due Student Accounts – All student accounts are payable at the University Bursar office or on my.ufl.edu at the time such charges are incurred. Graduating students with outstanding financial obligations will have a hold placed on their records withholding release of a diploma, transcript and other university services until the debt is satisfied.

University regulations prohibit the following for any student whose account with the university is delinquent until the debt has been satisfied:

- Registration
- Release of transcript, diploma, grades or schedules
- Loans
- The use of UF facilities and/or services
- Admission to UF functions and athletic events

Delinquent accounts, including those debts for which the student's records have a financial hold, may require payment by cashier's check or money order.

Delinquent debts may be placed with a billing agent, reported to a credit bureau and referred to collection agencies without further notice or litigated, at which time additional collection costs will be assessed in accordance with UF-3.0376(20) Regulations of the University of Florida. All payments received are applied to the oldest debt first.

Financial Aid

The information in this catalog is current as of July 2014. Please contact individual programs for any additional information or changes.

[Graduate Assistantships and Fellowships](#)

University-wide Fellowships

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Graduate Assistantships and Fellowships

Graduate Assistantships are available through individual academic units. Stipend rates paid are determined by the employing academic unit. Interested students should ask their academic-unit offices about the availability of assistantships and the procedure for applying. Early inquiry is essential to be assured of meeting application deadlines. Appointments are made on the recommendation of the academic unit chair, subject to admission to the Graduate School and to the approval of the Dean of the Graduate School. Initial appointment requires clear evidence of superior ability and promise. Reappointment to assistantships requires evidence of continued good scholarship.

For fall appointments, apply to the appropriate academic unit chair, on or before February 15th of each year, unless otherwise specified. Deadlines for appointments for other terms are determined by the employing unit.

Fellows, trainees, and graduate assistants must pay appropriate tuition and fees. Fellows receiving stipends of \$4,000 or greater per term (prorated for summer) are expected to devote full time to their studies. Students who accept fellowships and traineeship are required to register appropriately. Trainees are also expected to devote full time to their studies. Graduate assistants have part-time teaching or research duties; they are required to register for reduced credit loads, according to the schedule for their appointment. Students on appointment are financially liable for excess credits beyond the required registrations. **If a student on appointment drops below the required registration at any time in the semester, the student becomes financially**

liable for the entire registration.

Graduate School Fellowship Program

The Graduate School Fellowship program (GSF) represents the most prestigious graduate student award available at the University. Funded at nationally competitive levels, these highly desirable awards support students in all programs and departments of the University awarding a Ph.D. or MFA.

To ensure that Graduate School Fellows receive every opportunity to succeed, the GSF will provide four years of support through a nationally competitive stipend and tuition waiver for qualifying new students in PhD programs. The awards are for three years for students in MFA programs. Students may be appointed as Graduate Assistants, Research Assistants, Teaching Assistants, or Fellows.

The University expects Graduate School Fellows to demonstrate high standards of academic achievement and active participation in university life. Applicants for the GSF apply through the departments or programs of their major field of study. Successful applicants will have outstanding undergraduate preparation, a strong commitment to their field of study, and demonstrated potential in research and creative activities. For more information on the fellowships available, please contact the graduate coordinator for the degree program of interest.

Grinter Fellowship

Named in honor of Dr. Linton E. Grinter, Dean of the Graduate School from 1952 to 1969, this fellowship helps recruit truly exceptional graduate students. Currently enrolled graduate students are not eligible, except when entering a Ph.D. (or other terminal degree) program. Stipends are \$2000 to \$4000 per year for up to three years. Continuing the Grinter Fellowship beyond the first year depends on satisfactory student progress. Students in the Colleges of Engineering and Law are not eligible.

For details, contact the appropriate major academic unit.

Title VI: Foreign Language and Area Studies Fellowship

Title VI fellowships are available to graduate students whose academic programs are Latin America, Africa, or Europe oriented.

Applicants must be U.S. citizens or permanent residents and must be registered for a full-time course load including a language relevant to the area of their choice: specifically, Portuguese or Haitian Creole for recipients through the Center for Latin American Studies; Akan, Amharic, Arabic, Swahili, Wolof, Yoruba, Zulu or other African languages for which appropriate instruction can be arranged, for recipients through the Center for African Studies; and Czech, Greek (modern), Hungarian, Italian, Polish, Portuguese, Russian, Turkish, or other lesser and least commonly taught European languages for which appropriate instruction can be arranged for recipients through the Center for European Studies. The fellowships provide a \$15,000 stipend for the academic year and \$2,500 for the summer plus payment of all tuition and fees up to 12 credits. Academic year and summer fellowship programs have separate application processes.

For more information, contact:

Center for Latin American Studies
(319 Grinter Hall, <http://www.latam.ufl.edu>);

Center for African Studies
(427 Grinter Hall, <http://www.africa.ufl.edu>); or

Center for European Studies
(3324 Turlington Hall, <http://www.ces.ufl.edu>).

Veterans Administration and Social Security Administration Benefits Information

Veterans Benefits

For information regarding veteran education benefits please visit the [UF Office of Veterans Affairs](#).

For further GI Bill information, please visit veterans.ufl.edu.

Social Security Benefits

Inquiries related to Social Security benefits should be directed to the student's local Social Security Office. The Office of the University Registrar will complete enrollment certificates issued by the Social Security Administration for students eligible to receive educational benefits. A full-time graduate load is nine hours.

External Fellowships for Graduate Students

For information on external fellowships, small grants, and other funding opportunities:
<http://research.ufl.edu/faculty-and-staff/finding-funding/external-funding-opportunity-resources.html>

The COS/Pivot Funding Opportunities database and the GrantForward Database are keyword searchable and highly recommended as information resources
<http://guides.uflib.ufl.edu/content.php?pid=215478&sid=1953084>.

The Graduate School posts information concerning external funding opportunities at
<http://graduateschool.ufl.edu/finances-and-funding/financial-aid-bulletin-board>

Office of Graduate Minority Program (OGMP) Student Support

The following fellowships and programs are administered by the Graduate School's Office of Graduate Minority Programs (OGMP) <http://www.graduateschool.ufl.edu/student-life-and-support/diversity-programs>

Florida Board of Education (BOE) Summer Program: BOE is held during Summer B and is an orientation program for ethnic/cultural minorities, first-generation college students, students from a low socio-economic background, and students who are underrepresented in various academic disciplines. This program provides opportunities for newly admitted PhD students to build support networks and become acclimated to UF and the Gainesville community. Participants receive a \$1,500 stipend and payment of 4 credits for Summer B. All participants must be registered as full-time students for the next academic year. U.S. citizens and permanent residents who meet criteria for eligibility and who have been admitted to a UF graduate program are invited to apply online at: <http://www.graduateschool.ufl.edu/finances-and-funding/florida-boe-summer-fellowship-program>

Florida A&M University (FAMU) Feeder Program: UF is 1 of 47 universities in the FAMU Feeder Program aimed at increasing the number of FAMU students in graduate programs. FAMU nominates students with at least a 3.0 GPA to participating feeder institutions for admission into their graduate programs. OGMP is UF's main contact for the feeder program. UF offers five fellowships every year to qualified FAMU Feeder students who have been admitted to a PhD program. Each fellow receives a \$12,000 annual stipend, in-state tuition and health insurance for up to three years. For information please visit: <http://www.graduateschool.ufl.edu/finances-and-funding/famu-feeder-program>

McKnight Doctoral Fellowship Program: The Florida Education Fund (FEF) awards McKnight Doctoral Fellowships (MDF) to African American and Hispanic students who are U.S. citizens and newly admitted into PhD programs at Florida institutions. However students must submit an application for the McKnight Doctoral Fellowship to FEF by January 15. Awardees are then selected from those students who are newly admitted to PhD programs and who have submitted a complete application to FEF. The Fellowship provides a \$12,000 annual stipend, in-state tuition, fees, and health insurance for up to 5 years, provided there is satisfactory progress toward completing the degree. To apply for the McKnight Doctoral Fellowship, students should contact FEF for applications and more information and visit the MDF website: <http://www.fefonline.org/mdf.html>

Application deadline: January 15

Florida Education Fund
201 East Kennedy Blvd.
Suite 1525
Tampa, FL 33602
Phone (813) 272-2772

University of Florida/Santa Fe College Faculty Development Project: This partnership initiative allows UF doctoral students to teach as adjunct professors at Santa Fe College. Participants who teach 3 courses per year at SFC and help SFC recruit and retain minority students, are appointed on an annual basis. The program provides a \$12,000 stipend for 9 months, in-state tuition, fees and health insurance for fall and spring semesters. Students are selected for participation based on the academic and personnel needs of Santa Fe College. Faculty Development Project applicants must be U.S. citizens, from a minority or underrepresented group, and hold a master's degree or 18 credit hours of graduate level credit in one of the approved disciplines. For additional information: <http://www.graduateschool.ufl.edu/finances-and-funding/uf-sfcc-development-project>

National Consortium for Graduate Degrees for Minorities in Engineering and Sciences, Inc. (GEM) Fellowship: This fellowship program supports African American, Native American, and Hispanic students in pursuing the Master of Science degree in engineering and the Doctor of Philosophy degree in engineering and/or science disciplines. The GEM Fellowship Program provides funding for under-represented minority students at the master's and PhD level through fellowships and paid summer internships. The GEM Consortium assists in the matching of industry to the students for the paid internship. Students matched for a paid internship are eligible to receive a stipend for both master's and doctoral fellowship recipients. Each M.S. applicant must be a junior, senior, or graduate of an engineering program with at least a 2.8 GPA. Each PhD applicant must be a junior, senior, or graduate of an engineering program with at least a 3.0 GPA. For additional information: <http://www.gemfellowship.org> or call (703) 562-3646

Delores Auzenne Dissertation Award: The Delores Auzenne Dissertation Award is a competitively awarded program for underrepresented PhD students in the advanced writing stages of their dissertation. Applicants may not receive a fellowship, assistantship, or other funding with this award. The award provides half year (one 6-week summer semester plus one full-length semester) of support, which includes in-state tuition assistance of up to 3 hours of in state dissertation credit hours, and up to \$11,000 stipend. This award does not provide health insurance coverage.

Recipients may only receive the award once. The application deadline is in mid-April. Students must adhere to the following application guidelines to qualify for full consideration: Awardees will be expected to participate in at least 2 Professional Development Programs organized by the Graduate School, and provide regular updates of their writing progress. For more information: <http://www.graduateschool.ufl.edu/finances-and-funding/delores-auzenne-dissertation-award>

Ronald E. McNair Graduate Assistantship Program: UF provides a limited number of one-year research assistantships for newly enrolled McNair scholars who are entering a PhD program. It provides a stipend of \$12,000, in-state tuition, fees, and health insurance. It assists students who have successfully completed the McNair Post-Baccalaureate Achievement Program as undergraduates. The student will be appointed and perform research assistant duties under faculty supervision. Since this program is intended to increase enrollment in PhD programs, currently enrolled doctoral students are not eligible. Interested students who meet the eligibility requirements are invited to apply. For more information and application: <http://www.graduateschool.ufl.edu/finances-and-funding/mcnair-graduate-assistantships>

Bridge to the Doctorate Fellowship: The Bridge to the Doctorate (BD) Grant was awarded to UF by the National Science Foundation through the Florida-Georgia Louis Stokes Alliance for Minority Participation (FG-LSAMP) to enhance recruitment and retention of underrepresented minority students in Science, Technology, Engineering and Mathematics (STEM) disciplines. The BD provides stipends of \$30,000 per year for the first two years of doctoral studies for former LSAMP students who are entering PhD programs after completing baccalaureate degrees. In addition, the grant provides funds for those two years for each BD student's cost of education (in-state tuition, fees and health insurance). The grants are awarded to institutions in two-year cycles.

Campus Visitation Program (CVP): This program invites prospective students who are underrepresented in graduate studies to visit the University of Florida campus. During the visitation, participants learn more about UF's graduate programs and meet with administrators, faculty members, and current graduate students. CVP is held for 2 days during fall and spring semesters. OGMP provides housing and some meals. Participants are reimbursed for a portion of their travel expenses. Students must meet the minimum UF requirements of an undergraduate GPA (3.0), must have taken the graduate entrance examination (GRE, GMAT, etc.), and must have applied to the Graduate School to be considered for acceptance. Program applicants must be U.S. citizens or permanent-residents. For more information: <http://graduateschool.ufl.edu/admission/campus-visitation-program>

Please note: The UF Office of Graduate Minority Programs is not involved in processing applications or making admissions decisions. The student's academic unit is the primary contact for both. For questions about the online application process, please contact the UF Office of Admissions directly through the "Contact Us" link at the bottom of that webpage.

For additional information you may contact the OGMP office at

115 Grinter
P.O. Box 115500
Gainesville, FL 32611 Phone:
(352) 392-6444, (800) 753-9798

E-mail: ogmp@ufl.edu

Professional Development Workshops: During the academic year, the Office of Graduate Minority Programs plans monthly professional development workshops on topics related to graduate student and professional development success (getting your work published, financial management, choosing a mentor, etc.). These workshops are free and open to all UF students.

For dates:

<http://www.graduateschool.ufl.edu/student-life-and-support/professional-development>

Please note: The UF Office of Graduate Minority Programs is not involved in processing applications or making admissions decisions. The student's academic unit is the primary contact for both. For questions about the online application process, please contact the UF Office of Admissions directly through the "Contact Us" link at the bottom of that webpage.

For additional information you may contact the OGMP office at

115 Grinter
P.O. Box 115500
Gainesville, FL 32611

Phone:
(352) 392-6444, (800) 753-9798

E-mail: ogmp@ufl.edu

Visit online at <http://www.graduateschool.ufl.edu/student-life-and-support/diversity-programs>

Dissertation Completion Assistance

Graduate School Dissertation Awards: The Graduate School Dissertation Award is a competitive award to provide final term funding for UF PhD candidates in selected majors in the humanities, arts, and social sciences to complete their dissertations through defense, final clearance by the Editorial Office, and graduation. This program is for students who have exhausted all funding and meant to allow recipients time and resources to focus exclusively on completing their dissertation by the end of the award period.

The program provides a stipend for approximately 4-6 months. The award periods will be 1) Summer B + Fall, 2) Fall, 3) Spring, or 4) Spring + Summer A. Up to 5 credits of tuition at the instate rate will be provided, depending on the award period. Students are expected to graduate at the end of the award period. Applicants may not receive a fellowship, assistantship, or other funding with this award.

The application and deadlines are posted on the website <http://www.graduateschool.ufl.edu/finances-and-funding/dissertation-award>

Application submission deadlines for 2012-13:

November 2, 2012 for Spring or Spring + Summer A

May 17, 2013 for Summer B + Fall, or Fall

Graduate School Doctoral Research Travel Awards: The Graduate School Doctoral Research Travel Award provides support for research-related travel expenses for UF PhD students in the humanities, arts, and social sciences. This program is for students who have inadequate departmental funding to effectively conduct doctoral dissertation research away from UF.

Students selected for the Graduate School Doctoral Research Travel Award can receive up to \$5,000 for doctoral research-related travel for one semester—Fall Semester, Spring Semester, or Summer Semester C. A limited number of awards will be available each semester, depending on the level of available funding. This award is limited to travel and expenses to conduct the research. Students must be registered appropriately. It does not include coverage for tuition, fees, or health insurance. Nor does it include costs associated with attending research conferences or non-travel, direct research costs. A student may receive this award only one time. The research travel must start in the semester the award is given. Funds must be expended in the award semester and by the end of the following semester. A final 1-2 page summary report, including expenses, must be received by the Graduate School no later than the end of the second semester.

Applicants must be UF PhD students in good standing in the humanities, arts, and social sciences. They must have completed all academic coursework, and be actively engaged in their dissertation research. They must have a demonstrated need for travel funds to conduct their dissertation research, and their research travel must have the full support and endorsement of their research advisors or doctoral dissertation chairs.

For more information and application process and deadlines, see website <http://www.graduateschool.ufl.edu/finances-and-funding/doctoral-research-travel>

Application submission deadlines for 2012-13:

November 2, 2012 for Spring 2013 award

March 29, 2013 for Summer C 2013 award

May 17, 2013 for Fall 2013 award

: This award assists doctoral students in completing their degrees by providing tuition support and involving them in Graduate School-sponsored workshops. Students within 3 semesters of completing their Ph.D., who no longer have funding available through an assistantship or fellowship, are eligible to receive limited tuition assistance for the remaining semesters. The tuition assistance is not given in the form of cash, employment, tuition, or fee waiver; it is paid directly to Student Financial Services. This award is limited to U.S. citizens or permanent-residents.

Applications may be obtained at

<http://www.graduateschool.ufl.edu/finances-and-funding/supplemental-retention-scholarships>

Office for Student Financial Affairs

Financial aid is available to qualified graduate students through the Office for Student Financial Affairs (SFA) in S107 Criser Hall, mainly through work or loan programs.

Applying for financial aid at UF, including loans, begins with the FAFSA, the Free Application for Federal Student Aid. Apply on or soon after January 1. Students whose financial aid files are complete by the March 15 "On-Time" application deadline are automatically considered for the most, and best aid.

Complete your application several weeks earlier than the March 15 deadline to ensure that UF has time to process the results of your FAFSA.

Students should not forget to reapply each year. Financial aid is not renewed automatically.

Although you must be accepted for enrollment at UF before you receive financial aid, you should apply for aid before being admitted.

Loans

UF primarily offers student loans through the Federal Direct Loan Program, but there are a number of other loan programs available at UF, including: UF Long Term Loans, UF Short Term Loans, and Alternative Loans. These programs offer long-term, low-interest loans. Your eligibility will be determined based on your classification, cost of attendance, and a number of other factors.

Short-term loans: UF has an emergency short-term loan program to help students meet temporary financial needs related to educational expenses. Graduate students may borrow up to \$1,000 or the amount of in-state tuition if they have an acceptable repayment source. Interest is 1% per month and these loans must be repaid by the first day of the last month in the term the money is borrowed. Processing takes about 48 hours. For applications, visit SFA in S107 Criser Hall.

For more information regarding specific loan programs, please visit SFA's loan page at <http://www.sfa.ufl.edu/programs/loans>.

Part-Time Employment

UF offers part-time student jobs through three employment programs: Federal Work-Study jobs, including the Federal Community Service component; Other Personnel Services (OPS); and off-campus jobs.

Federal Work-Study jobs are based on financial need. To apply for Federal Work-Study jobs, students must complete a FAFSA. OPS jobs are not based on financial need.

To search and apply for on-campus jobs, including all Federal Work-Study (FWS), Federal Community Service, and OPS positions, go to [GatorJobs](#). Choose "Search Postings." For "Job Category," choose "Student."

Search for off-campus jobs through the [Career Resource Center](#) website, <http://www.crc.ufl.edu>, using your Gator CareerLink Account.

For more information and how to apply:

<http://www.sfa.ufl.edu/programs/employment>

Academic Progress Policy for Financial Aid Recipients

Students receiving financial aid must be making satisfactory academic progress under UF's published standards. UF's financial aid academic progress policy is available on the Office for Student Financial Affairs (SFA) website at <http://www.sfa.ufl.edu/additional/academic-progress>.

Research and Teaching Services

The information in this catalog is current as of July 2014. Please contact individual programs for any additional information or changes.

[Art Galleries](#)
[Biological Sciences](#)
[Clinical and Translational Science](#)
[Computer Facilities](#)
[Electronic Delivery of Graduate Engineering \(EDGE\)](#)
[Engineering Research](#)
[Florida Agricultural Experiment Station](#)
[Florida Museum of Natural History](#)
[Health Science Center](#)
[Libraries](#)
[Oak Ridge Associated Universities](#)
[Office of Research](#)
[Performing Arts Venues](#)
[Quantum Theory Project](#)
[Toxicology](#)
[Tropical Agriculture](#)
[Tropical Conservation and Development](#)
[Tropical Studies](#)
[University Press of Florida](#)
[Vision Sciences](#)

In addition, a number of graduate programs offer interdisciplinary enhancements in the form of [Interdisciplinary Concentrations](#), field research, and [Graduate Certificates](#). Many [colleges](#), [departments](#), and individual [programs](#) across UF come together to serve the entire community.

Art Galleries

The 86,800-square-foot **Samuel P. Harn Museum of Art** in the University of Florida Cultural Plaza is one of the Southeast's largest university art museums and the only art museum in North Central Florida accredited by the American Association of Museums. Admission is free. The Harn's five collection galleries focus on African, Asian, modern, and contemporary art and photography. Diverse temporary exhibitions are also presented. Performances, family programs, lectures and films increase art appreciation. Museum hours are 11 a.m. to 5 p.m. Tuesday through Friday; 10 a.m. to 5 p.m. Saturday; 1 to 5 p.m. Sunday; select Thursdays 5 to 9 p.m. for Museum Nights. Free docent-led tours Saturday and Sunday at 2 p.m.

The University Gallery, established in 1965, is an essential component of the teaching, research, and service missions of the School of Art + Art History. The Gallery's primary purpose is to present high-quality visual-arts exhibitions that reach a diverse cross section of the University's many academic disciplines and core research areas and to provide rich first-hand interaction with cutting-edge artwork for students, faculty, staff and the nother-central Florida region.

Focus Gallery (in the lobby of the School of Art + Art History offices in the Fine Arts Complex) was established in 1963. Public exhibition space is used by students and faculty sponsors in the School of Art + Art History to experiment with artwork and have hands-on experiences in the production of art exhibitions.

Grinter Galleries (in the lobby of Grinter Hall) was established in 1972. This venue is reserved for exhibitions of international art and artifacts that teach about world culture. Several of the University's international centers are located in Grinter Hall, and their programs provide content for the galleries' exhibitions.

and the Institute of Food and Agricultural Sciences

The Archie Carr Center for Sea Turtle Research conducts research on all aspects of the biology of sea turtles. Researchers at the Center for Sea Turtle Research, collaborating with students and faculty of various academic units, take a multidisciplinary approach to address the complex problems of sea turtle biology and conservation. Scientists from the Center have investigated questions of sea turtle biology around the world, from the molecular level to the ecosystem level, from studies of population structure based on mitochondrial DNA to the effects of ocean circulation patterns on the movements and distribution of sea turtles. Long-term field studies of the Center are conducted mainly at two research stations in the Bahamas and the Azores. For more information, contact the Director, Archie Carr Center for Sea Turtle Research, 223 Bartram Hall, Phone (352) 392-1126, Website <http://accstr.ufl.edu>.

The Whitney Laboratory for Marine Bioscience is a UF research center for biomedical research and biotechnology. Founded in 1974, the Whitney Lab is dedicated to using marine model animals for studying fundamental problems in biology and applying that knowledge to issues of human health, natural resources, and the environment. The academic staff of the Whitney Laboratory consists of 10 tenure-track faculty members, together with over 50 associates, students, and visiting scientists. The Laboratory is led by Director Dr. Mark Q. Martindale.

Fields of research conducted at the Whitney Laboratory include biomechanics/neuroethology, chemosensory and visual physiology, neurogenomics and comparative marine genomics, synaptogenesis and synaptic physiology, regenerative biology, and the evolution of development. This research uses the techniques of modern cell and molecular biology, for which the Laboratory is particularly well equipped and recognized. The Laboratory provides research support to units on campus and collaborates with several national studies focused on marine genomics.

Research at Whitney Laboratory attracts graduate students, postdocs, and scientists from all over the United States and abroad. Students enroll in the graduate programs of academic units on campus and complete their course work before moving to the Whitney Laboratory, where they conduct their dissertation research under the supervision of resident faculty. An NSF undergraduate research training program at the Whitney Laboratory is also available for 11-week periods in the summer. Whitney also has an active K-12 STEM outreach program, and a public lecture series (Evenings at Whitney) offering community educational opportunities for graduate students.

For more information, contact the Director, Mark Q. Martindale, PhD, Whitney Laboratory for Marine Bioscience, 9505 Ocean Shore Blvd, St. Augustine, FL 32080-8610, Phone (904) 461-4000; Fax (904) 461-4052; Website: www.whitney.ufl.edu

The UF Marine Laboratory at Seahorse Key Seahorse Key Marine Laboratory is a field station providing (a) support for research by students, faculty, and visiting scientists; (b) an outstanding teaching program in marine and coastal related subjects; and (c) public education outreach programs related to marine, estuarine, and coastal resources of Florida. Seahorse Key is 57

miles west of Gainesville on the Gulf Coast, 3 miles offshore and opposite Cedar Key. Facilities include a 42 foot research vessel, several smaller outboard-powered boats for shallow water and inshore work, a 20 x 40 foot research and teaching building, and a historic residence building, with 2 kitchens, 2 bathrooms, dining area, and dormitory accommodations for 26 persons.

The Clinical & Translational Science (CTS) predoctoral training program of the UF CTSI provides clinical and translational research training for pre-doctoral students performing research in health-related fields at UF using a team science approach. This program is part of the fully integrated approach of the UF CTSI to advance education and career development by early identification, recruitment, and training of a critical mass of multidisciplinary, clinical and translational investigators working to improve human health. The program is intended to increase motivation of graduate students for selection into health-relevant multidisciplinary clinical and translational research careers among the participating students. The CTS predoctoral program is aligned with the focus of the NIH on translational research to bridge the gap between basic science and improved human health, and is supported in part by the UF Clinical & Translational Science Award (CTSA). Trainees will develop skill sets to lead and participate effectively in team oriented translational science. Participation in the program will give trainees an advantage in preparing for successful careers in a variety of settings, including academia, industry, biotech, and government. The UF CTSI exists to enhance the ability of the University of Florida to develop new therapies, test those therapies in real-world settings, promote therapies found to be of value, and continuously evaluate the effectiveness of therapies. In this context, a "therapy" can be any approach to bettering human health—from lifestyle changes to genetic interventions, from drug discovery to public health.

Find out more here:

<https://www.ctsi.ufl.edu/> or for additional information about the UF CTSI, please call 352-273-8700 or email info@ctsi.ufl.edu.

College of Engineering Research

The College of Engineering performs research that benefits the state's industries, health, welfare, and public services. The College also works to enhance our nation's global competitive posture by developing new materials, devices, and processes. There are significant opportunities for undergraduate and graduate engineering students to participate in hands-on, cutting-edge research.

The college addresses a wide variety of state and national research issues through the college's academic departments and engineering research centers. It takes an interdisciplinary approach to research by involving talents from diverse areas of the College and the University. Particle science and technology, nanoscience and technology, materials, intelligent machines, transportation, biomedical engineering, computer technologies and systems, communications, information systems, energy systems, robotics, construction and manufacturing technologies, computer-aided design, process systems, a broad spectrum of research related to the "public sector" (agricultural, civil, coastal, and environmental) represent some of the broad-based research programs.

Computer Facilities Office of Academic Technology (AT) at the Hub

Services available to graduate students include electronic thesis and dissertation computing support, phone and walk-in application support, plotter printing, technical & mobile device consulting, email support, software distribution (including statistical software), and the use of computer classrooms. The AT computer classrooms are available for personal and academic use. They are equipped with both Windows and Macintosh-compatible computers, laser printers, plotters, and scanners.

Instructors may use the site-licensed E-Learning course management system to provide online course tools such as syllabus, content and secure grade posting. Instructors may reserve an AT computer classroom or multimedia lecture classroom for class sessions. For more information about these and other Academic Technology services, contact the UF Computing Help Desk, 132 Hub, <http://helpdesk.ufl.edu>, (352) 392-HELP (4357).

Florida Agricultural Experiment Station

The Florida Agricultural Experiment Station conducts statewide research programs in food, agriculture, natural resources, and the environment. Research deals with agricultural production, processing, marketing, human nutrition, veterinary medicine, renewable natural resources, and environmental issues. This research program includes activities by faculty on the Gainesville campus and on the campuses of Research and Education Centers throughout the state. Close cooperation with numerous Florida agricultural and natural resource related agencies and organizations is maintained to provide research support for 300 agricultural commodities and Florida's rich natural resources.

The land-grant philosophy of research, extension, and teaching is strongly supported and administered by the Senior Vice President for Agriculture and Natural Resources. The Institute of Food and Agricultural Sciences, under his leadership, is comprised of the Florida Agricultural Experiment Station, the Florida Cooperative Extension Service, the College of Agricultural and Life Sciences, and elements of the College of Veterinary Medicine, each functioning under a dean. Most IFAS faculty have joint appointments involving teaching, research, and/or extension.

Research and graduate programs are conducted in 14 departments and two schools: Agricultural and Biological Engineering; Agricultural Education and Communication; Agronomy; Animal Sciences; Entomology and Nematology; Environmental Horticulture; Food and Resource Economics; Food Science and Human Nutrition; Family, Youth and Community Sciences; Horticultural Sciences; Microbiology and Cell Science; Plant Pathology; Soil and Water Science; Wildlife Ecology and Conservation; the School of Forest Resources and Conservation; and the School of Natural Resources and Environment. Additional support units vital to research programs include IFAS Information and Communication Services, the Office of Facilities Planning and Operations, the Office of Budget and Finance, IFAS International Programs, the Office of Human Resources, and the Office of Governmental Affairs.

Outside of Gainesville, IFAS faculty and graduate students are located at 12 Research and Education Centers throughout Florida, from Homestead in the extreme south, to Jay in the extreme west. Extension personnel are located in all of Florida's 67 counties.

Additional research is conducted through the Center for Environmental and Human Toxicology; the Center for Agricultural and Natural Resource Law; the Center for Aquatic and Invasive Plants; the Center for Food Distribution and Retailing; the Center for Nutritional Sciences; the Center for Remote Sensing; the Center for Sustainable and Organic Food Systems; the Center for Tropical Agriculture; the Florida Center for Renewable Chemicals and Fuels; the International Agricultural Trade and Policy Center; the Center for Landscape Conservation and Ecology; the Center for Public Issues Education in Agriculture and Natural Resources; the Ordway-Swisher Biological Station; the Plant Science Research and Education Unit; the Florida Sea Grant Program; the Florida Cooperative Fish and Wildlife Research Unit; the Fisheries and Aquatic Sciences and Marine Sciences Programs; the Tropical Aquaculture Laboratory; the Emerging Pathogens Institute; the UF Genetics Institute; the Florida Climate Institute; and the UF Water Institute.

Ordway-Swisher Biological Station. The Ordway-Swisher Biological Station (<http://ordway-swisher.ufl.edu>) is a biological field station established for the long-term study and conservation of unique ecosystems through research, teaching, and management. It is managed for the University of Florida by the UF/IFAS Office of the Dean for Research. The 9300-acre facility is located in Putnam County, Florida (roughly 26 miles from Gainesville) and is not open to the general public. The property is a mosaic of wetlands and uplands that include sandhills, xeric hammock, upland mixed forest, swamps, marshes, clastic upland lakes, sandhill upland lakes, and marsh lakes. A variety of fauna inhabit the preserve, including a number of state and federally listed species. Wildfires and prescribed burning have had a strong influence on the landscape. The station is a member of the Organization of Biological Field Stations (OBFS) and serves as the southeastern core site for the National Ecological Observatory Network (NEON).

Florida Museum of Natural History

The Florida Museum of Natural History was created by the Legislature in 1917 as a department of the University of Florida. Through its affiliation with the University, it carries dual responsibility as the official State Museum of Florida and as the University museum. The public education and exhibits division of the Museum is in Powell Hall, on Hull Road at the western edge of campus, situated between the Ham Museum of Art and the Phillips Center for the Performing Arts. Powell Hall is devoted exclusively to permanent and traveling exhibits, educational and public programs, special events, and includes the Butterfly Rainforest. It is staffed by specialists in interpreting natural history through exhibits and educational programs. Consult the website for hours and admission fees (<http://www.flmnh.ufl.edu>). The Museum also operates as a center of research in anthropology and natural science. The research and collections division is in Dickinson Hall, at the corner of Museum Road and Newell Drive. This building is not open to the public. The Department of Natural History houses the state's natural history

collections and is staffed by scientists and support personnel concerned with the study of modern and fossil plants and animals, and historic and prehistoric people and their cultures; scientific and educational faculty (curators) hold appointments in appropriate UF academic units. Through these appointments, they participate in both undergraduate and graduate teaching programs. The Museum's newest addition is the McGuire Center for Lepidoptera and Biodiversity. This world-class facility features a 46,000-square-foot Lepidoptera center devoted to housing one of the world's largest and most comprehensive Lepidoptera collections, and state-of-the-art research facilities for their study. It also contains dynamic public exhibitions and a live Butterfly Rainforest with a walking trail, educational exhibits, and hundreds of living butterflies.

The **Randell Research Center** at the Pineland archeological site near Fort Myers, Florida, is dedicated to learning and teaching the archeology, history, and ecology of Southwest Florida.

The **Herbarium at UF** is also a division of the Museum. It contains specimens of vascular and nonvascular plants. The research collections are in the care of curators who encourage scientific study of the Museum's holdings. Materials are constantly being added to the collections both through gifts from friends and as a result of research activities of the Museum staff. The archaeological and ethnographic collections are noteworthy, particularly in the aboriginal and Spanish colonial material remains from the southeastern United States and the Caribbean. There are extensive study collections of birds, mammals, mollusks, reptiles, amphibians, fish, invertebrate and vertebrate fossils, and plant fossils, and a bioacoustic archive consisting of original recordings of animal sounds. Opportunities are provided for students, staff, and visiting scientists to use the collections. Research and field work are presently sponsored in the archaeological, paleontological, and zoological fields.

Students interested in these specialties should apply to the appropriate academic units. Graduate assistantships are available in the Museum in areas emphasized in its research programs.

Health Science Center Interdisciplinary Research

The HSC is a world leader in interdisciplinary research. The Clinical and Translational Science Institute, McKnight Brain Institute, UF Health Cancer Center, UF Genetics Institute, UF Institute on Aging and the UF Emerging Pathogens Institute are designed to create synergies and collaborative research opportunities that focus on the translational nature of biomedical research, following the continuum from fundamental research to clinical research to patient care. In the summer of 2009, UF became the only university in Florida to receive the National Institutes of Health's Clinical and Translational Science Award. This \$26 million five-year grant is geared toward accelerating scientific discovery, enhancing medical care, producing highly skilled scientists and physicians and fostering partnerships with industry; it supports multidisciplinary research in a wide range of fields such as biomedical informatics, gene therapy, aging, nanotechnology and infectious diseases.

For more information, please visit ufhealth.org/health-science-center/overview.

Libraries

The libraries of the University of Florida ([UF Libraries](#)) form the largest information resource system in the state of Florida and include seven libraries. Six are in the system known as the George A. Smathers Libraries, and one (Legal Information Center) is attached to the law school's administrative unit. All of the libraries serve the entire community, but each has a special mission to be the primary support of specific colleges and degree programs. Because of the interdisciplinary nature of research, scholars may find collections built in one library to serve a specific discipline or constituency to be of great importance to their own research. The University of Florida Gator 1 card provides access to library services.

The library home page offers a wealth of information about the libraries and links to a vast array of resources. Print and electronic collections can be accessed through [the library catalog](#) as well as through general and subject specific [databases](#). [Library Guides](#) are available by subject to guide the user to appropriate resources. Materials not held on campus can be quickly located and borrowed through [Interlibrary Loan](#). Reference service is available in each library as well as via phone, email and [chat](#). All of the libraries provide special services to help students and faculty with [disabilities](#).

For Library Hours

<http://www.uflib.ufl.edu/ps/hours/>

Workstations in UF libraries provide access to the whole array of electronic resources and services. Licensing for library databases, e-journals and e-books restricts [off-campus access](#) to staff, students and faculty.

[Library orientation programs](#) are offered at the beginning of each term. In addition, instruction librarians will work with faculty and teaching assistants to develop and present course-specific library instruction sessions for their students. [Subject specialists](#), who work closely with faculty and graduate students to select materials for the collections, also advise graduate students and other researchers who need specialized bibliographic knowledge to define local and global information resources available to support specific research.

Library West houses most of the humanities and social science collections; professional collections in support of business, health and human performance, journalism and public relations; the African Studies Collection; the Asian Studies Collection; and the Isser and Rae Price Library of Judaica. Library West includes 84 individual graduate study carrels that are assigned for the academic year. An online application form is available here: <http://apps.uflib.ufl.edu/cars/>. In addition, the sixth floor of Library West is a study area reserved for graduate students. Access is provided after students register at the Circulation Desk.

Marston Science Library houses collections in agriculture, life sciences, engineering, physical sciences, mathematics and earth sciences. The newly renovated first floor Collaboration Commons includes a multipurpose conference room featuring a multi-touch visualization wall. The first floor is also home to MADE@UF, a collaboration space created by the Libraries and Academic Technology to be used for creative activities such as mobile app development, 3D scanning and other "maker" initiatives.

Health Science Center Libraries serve the academic, research and clinical information needs of the Colleges of Dentistry, Medicine, Nursing, Pharmacy, Public Health and Health Professions and Veterinary Medicine. The Borland Library (2nd floor, Learning Resource Center) is the Jacksonville branch, and the Veterinary Medicine Reading Room is located in room V1-110 in the College of Veterinary Medicine Building.

Smathers Library (formerly known as Library East) holds the Latin American Collection and the Special Collections: rare books and manuscripts, The Baldwin Library of Historical Children's Literature, P. K. Yonge Library of Florida History and University Archives (custodian of the university's historically significant public records including the administrative files of its past presidents).

Architecture & Fine Arts Library (201 Fine Arts Building A) holds visual arts, art history, architecture, landscape architecture, interior design, building construction and urban planning materials and the music collection — music scores, books, periodicals and other music sources, as well as a non-circulating collection of recordings.

Education Library (1500 Norman Hall) holds education, child development, higher education, psychology and counseling collections. In addition to electronic and print research materials, there are other specialized collections such as the Children's Literature Collection, the K-12 Textbook Collection, and the ERIC Documents Microfiche and other multimedia collections.

Lawton Chiles Legal Information Center holds resources for law and related social sciences with over 595,000 volumes and equivalents. It is named in honor of the former governor and senator and housed in a completely renovated facility that is the largest in the Southeast. The Lawton Chiles Legal Information Center occupies the bottom three floors of Holland Hall with computer support on the top floor. The facility includes 13 student study rooms, a lactation/meditation room, lounge seating, open reserve area and carrels.

UF Digital Collections (<http://ufdc.ufl.edu/>) comprise a constantly growing collection of digital resources from the University of Florida's library collections, as well as partner institutions.

The Libraries participate in UBorrow which allows users to request materials through the online library catalog directly from participating Florida state university libraries. If a book is unavailable in the University of Florida collection, but is available elsewhere in the state, the UBorrow icon will appear on the library catalog search page. Clicking this link will take the user to the statewide catalog where they can provide their library credentials, and specify a pickup site. UBorrow loans usually arrive within a few days. This unmediated borrowing service creates a virtual statewide library of over 16 million items.

Office of Research

The University of Florida's Office of Research facilitates and manages the university's external research funding enterprise. The office provides many services for UF faculty, staff and students, from identifying a grant opportunity to managing proposals and awards and protecting and promoting intellectual property. The Division of Sponsored Programs facilitates institutional approval for all extramural proposal submissions, accepts and administers grant awards, and negotiates contracts and other research-related agreements on behalf of the University of Florida. The Division of Research Program Development identifies funding opportunities for faculty, manages internal funding programs and assists in planning and coordinating large, interdisciplinary research initiatives.

The Division of Research Compliance assists faculty, staff and students in conducting research in compliance with applicable research regulatory requirements and institutional policies. The goal of the Division of Research Compliance is to promote compliance while facilitating research. The Division of Research Operations and Services provides support that underpins the campus-wide services that are part of the Office of Research portfolio.

The University of Florida Research Foundation is a non-profit, direct-support organization that manages the university's royalty and licensing enterprise. The [Office of Technology Licensing](#) handles patenting, marketing and licensing of intellectual property. OTL works closely with UF inventors in identifying and protecting new inventions. All patents, copyrights and trademarks are processed and managed by OTL, which also helps researchers develop confidentiality, mutual secrecy, and material transfer agreements.

The Office of Research provides funds for the Grinter Fellowship program. These fellowships are part of funding packages awarded by academic units to support recruitment of outstanding new graduate students. The Office of Research also supports individual graduate students by offering competitive travel grants and other types of awards. This office also provides an important centralized location for other internal and external funding opportunities by offering a host of resources at <http://www.research.ufl.edu/research-program-development/internal-competitive-funding.html>.

For more information, contact:

The Office of Research
P.O. Box 115500
(352) 392-1582

Since 1948, UF students and faculty of the University of Florida have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 98 colleges and universities and a contractor of the U.S. Department of Energy in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, and faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program lengths range from 1 month to 4 years. Many of these programs aim to increase the number of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive list of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the *ORISE Catalog of Education and Training Programs*, which is available at <http://www.orau.gov/orise/educ.htm>, or by calling either of the contacts below.

ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU's members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research, and support programs as well as services to chief research officers.

For more information:

The Office of Institutional Planning and Research website provides access to the Florida ExpertNet searchable database of Centers and Institutes. Go to [the search function](#) and choose "University of Florida" from the "Limit By" drop-down menu toward the bottom of the page. Finally, click "search" for a complete list of UF Interdisciplinary Research Centers.

For more information about ORAU and its programs, visit the ORAU home page at <http://www.orau.org>

Performing Arts Venues

University of Florida Performing Arts brings a diverse range of events to its venues each season, including theater, chamber, classical, dance, jazz, world performances and more. The 1,700-seat Phillips Center features computerized lighting and sound systems. The Squitieri Studio Theatre is used for experimental or small musical productions, recitals and receptions. The historic University Auditorium seats 839 and provides a classic setting for chamber and solo concerts, musical performances, lectures and more. The Baughman Center, a breathtaking pavilion on the shores of Lake Alice, is an inspirational setting for both contemplation and celebration.

UFPA offers discounted tickets (for most events) to students with a valid Gator 1 card. For more information about student tickets, please visit the website.

For information about UFPA:
Administrative offices,
Phone (352) 273-2457.

For event information or tickets:
Phillips Center Box Office,
Phone (352) 392-ARTS,
Website <http://www.performingarts.ufl.edu>

QTP is an interdisciplinary group of 12 faculty plus graduate students, postdoctoral associates, and staff in the Departments of Physics and Chemistry in the College of Engineering and in the Department of Materials Science and Engineering in the College of Engineering. The computationally oriented theoretical research investigates electronic structure, conformation, properties, and dynamics of molecules and materials. The work covers large areas of modern chemistry, condensed matter and materials physics and engineering, and molecular biology. Essentially all the effort is supported by substantial extramural funding, both individual and collaborative. Since 1960, the Institute has organized a major international meeting, the annual Sanibel Symposium. Visit <http://www.qtp.ufl.edu/sanibel> for details on the next symposium.

Graduate students in chemistry and in physics are eligible for this specialization and follow a special curriculum. For more information, contact the Director, Quantum Theory Project, email director@qtp.ufl.edu, P.O. Box 118435 (New Physics Building); or visit the QTP website <http://www.qtp.ufl.edu>.

The Center for Environmental and Human Toxicology serves as the focal point for activities concerning the effects of chemicals on human and animal health. The Center's affiliated faculty includes 20 to 30 scientists and clinicians interested in elucidating the mechanisms of chemical-induced toxicity, and is drawn from the Colleges of Medicine, Veterinary Medicine, Pharmacy, Public Health and Health Professions, Engineering and the Institute of Food and Agricultural Sciences. The broadly based, interdisciplinary expertise provided by this faculty is also used to address complex issues related to protecting public health and the environment.

Students who wish to receive graduate training in interdisciplinary toxicology leading to a Ph.D. enroll through one of the participating graduate programs. The number of graduate programs involved in interdisciplinary toxicology, and the variety of perspectives provided by their disciplines, allows a great deal of flexibility in providing a plan of graduate study to meet an individual student's interests and goals in toxicology. Student course work and dissertation research are guided by the Center's researchers and affiliated faculty who are also Graduate Faculty members in the student's major academic unit. Dissertation research may be conducted either in the student's academic unit, or at the Toxicology Laboratory facilities, at the Center. For more information, please write to the Director, Center for Environmental and Human Toxicology, P.O. Box 110885, University of Florida, Gainesville, FL 32611; or visit their website (<http://toxicology.ufl.edu>).

The Center for Tropical Agriculture, in the Institute of Food and Agricultural Sciences, seeks to stimulate interest in research and curriculum related to the tropical environment and its development. Website: <http://cta.ufl.edu>.

Research: International agricultural development assistance contracts frequently have research components. The Center helps coordinate this research.

Minor in tropical agriculture: An interdisciplinary minor in tropical agriculture is available for both master's and doctoral students majoring in agriculture, forestry, and other fields where knowledge of the tropics is relevant. The minor may include courses treating specific aspects of the tropics such as natural resource management (e.g., soils, water, biodiversity), climate, agricultural production, and the languages and cultures of those who live in tropical countries.

Requirements for the minor at the master's level include a minimum of 7 letter-graded credit hours. Six letter-graded credit hours are chosen from the list of approved courses with the guidance of the supervisory committee. Selected courses must be from outside the student's major and may not include courses from other academic units which qualify for graduate credit within the home department. One letter-graded credit hour must be a "hands-on" experience in the student's selected focus in tropical agriculture. This experience may take the form of a study abroad, internship, field trip, or special project and must have a time equivalent at least equivalent to a 1-credit graded course.

Requirements for the minor at the Ph.D. level include a minimum of 12 letter-graded credits. Selected courses must be from outside the student's major and may not include courses from academic units which qualify for graduate credit within the home department. One letter-graded credit hour must be a "hands-on" experience in the student's selected focus in tropical agriculture. This experience may take the form of a study abroad, internship, field trip or special project that must have a time equivalent to a 1 credit letter-graded course. An intent of the minor at the Ph.D. level is to insure each student has an appreciation of the social context within which tropical agriculture is often practiced. To that end, at the discretion of the CTA faculty member on the supervisory committee, if the student does not have a background that addresses the social context, 3 letter-graded credits may be selected from the social science section of the approved list.

Other activities: The Center seeks broad dissemination of knowledge about tropical agriculture by sponsoring conferences, short courses, and seminars featuring leading authorities on the tropics; publishing books, monographs, and proceedings; and by acquiring materials for the library and the data bank.

The Tropical Conservation and Development Program (TCD), in the Center for Latin American Studies, offers an interdisciplinary graduate certificate and graduate concentration focused on integrative approaches to conservation and development in Latin America and other tropical regions. Both the certificate and concentration are open to students who are interested in acquiring interdisciplinary knowledge and technical skills to pursue a career in conservation and development research and practice. These students must be enrolled in master's or Ph.D. programs in TCD's affiliate academic units at the University of Florida.

For more information on the TCD certificate and concentration program, and for a list of approved courses, visit the TCD website (<http://www.tcd.ufl.edu>), or contact Bette Loiselle, TCD Director, 347 Grinter Hall, (352) 273-4706, E-mail BLoiselle@latam.ufl.edu, or Patricia Sampaio, TCD Program Coordinator, 343 Grinter Hall, (352) 273-4734, Email PSampaio@latam.ufl.edu.

The Organization for Tropical Studies (OTS) is a consortium of 50 major educational and research institutions in the United States and abroad, created to promote understanding of tropical environments and their intelligent use by people. The University of Florida is a charter member. Graduate field courses in tropical biology and ecology, agricultural ecology, population biology, and forestry are offered in Costa Rica and Brazil during spring and summer terms. Students are selected on a competitive basis from all OTS member institutions.

UF Electronic Delivery of Graduate Engineering (UF EDGE)

UF EDGE offers online graduate engineering master's degrees, courses and certificates from the College of Engineering. The UF EDGE program allows engineers to obtain their master's degrees from any location without the need to travel to the UF campus. All course lectures and materials are delivered online and distance students submit homework via e-mail and have exams proctored at their places of work to be faxed in for grading. A master's degree is comprised of 10 courses totaling 30 credit hours. Students can take as many courses per semester as their work and life schedules permit, thus setting their own pace toward their degrees. Employers may provide financial support for these graduate courses. Students wishing to participate in the UF EDGE program should contact the UF EDGE office at (352) 392-9670 or visit the website at www.ufedge.ufl.edu for more detailed information. Students pursuing a degree through UF EDGE and the College of Engineering are governed by the College's requirements, the academic unit to which they have been admitted, and the Graduate School.

University Press of Florida

The University Press of Florida is the official scholarly publishing agency of the State University System of Florida. The Press (just off campus, at 15 NW 15th Street) reports to the President of the University, who supervises the Press on behalf of the 11 state universities. The statewide Council of Presidents is the governing board for the Press.

An advisory board, consisting of representatives from each of the 11 state universities, determines whether manuscripts submitted to it reflect appropriate academic, scholarly, and programmatic standards of the Press.

The Press publishes scholarly works of intellectual distinction and significance, books that contribute to improving the quality of higher education in Florida, and books of general and regional interest and usefulness to the people of Florida, reflecting their rich historical, cultural, and intellectual heritage and resources. The Press publishes works in the following fields: the Caribbean and Latin America; the Middle East; North American archaeology, American history, and culture; Native Americans; literary theory; medieval studies; architecture; ethnicity; natural history; conservation biology; the fine arts; and Floridiana.

Submit manuscripts to

The Editor-in-Chief,
University Press of Florida,
15 NW 15th Street,
Gainesville, FL 32611

An interdisciplinary specialization in vision sciences is available through the College of Medicine. The Department of Ophthalmology serves as the administrative and logistical center. However, most of the faculty are from the IDP advanced concentrations. Current interests include retinal gene therapy, gene expression in the mammalian retina and lens, especially during fetal development, biochemistry of vision in vertebrates and invertebrates, biochemistry and neurobiology of wound healing and neural tissue degeneration, and molecular and cell biology of animal model retinal degeneration.

For more information, contact the Program Director, Dr. W. Clay Smith, P.O. Box 100284, College of Medicine, Gainesville FL 32610-0284, Phone (352) 273-8794, Email wsmith@ufl.edu.

A number of graduate programs offer interdisciplinary enhancements in the form of [Interdisciplinary Concentrations](#), field research, or [Graduate Certificates](#). Many [colleges, departments](#), and individual [programs](#) across UF come together to serve the university and our entire community. The information in this catalog is current as of July 2013. Please contact individual programs for any additional information or changes.

Student Services

The information in this catalog is current as of July 2014. Please contact individual units for any additional information or changes.

[Career Resource Center](#)
[Centers and Institutes](#)
[Counseling and Wellness Center](#)
[English Skills for International Students](#)
[Gator 1 Card](#)
[Graduate Student E-mail Listserv and Website](#)
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[Graduate School Editorial Office](#)
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[Research and Teaching Services](#)
[Speech and Hearing Center](#)
[Student Health Care Center](#)
[UF International Center](#)
[University Writing Studio](#)
[Workshops for Teaching Assistants](#)

Career Resource Center

The Career Resource Center, known as the CRC, is a comprehensive career planning facility located on the 1st floor of the J. Wayne Reitz Union. The CRC is the only centralized unit on campus providing resources for all graduate students across all disciplines. Information specifically for graduate students is located at <http://www.crc.ufl.edu/students/studentGraduateGlance.html> to help students explore career paths as well make connections to employers.

The CRC provides opportunities for students to **EXPLORE** career paths with resources from career planning appointments, where you can discuss interests one-on-one with a staff member to workshops for careers inside and outside of academia. You can also **PREPARE** for and **START** an internship or job search. Activities include online instruction in creating a curriculum vitae or resume to applying for jobs with employers recruiting UF students. Graduate students also learn to **ADAPT** for changing work activities by acquiring diverse skills and experiences and making short-term flexible goals.

Get started with the Career Resource Center, visit us online www.crc.ufl.edu, stop into our office for quick questions Monday through Friday or schedule a career planning appointment online. The CRC works with students in all disciplines and best of all, it's free.

Centers and Institutes

As a major research institution, UF has a number of research areas designated as Centers or Institutes. There are more than [150 Centers](#) and more than [30 recognized institutes](#). Ten of these centers and institutes with campus-wide missions report to the Vice President for Research: <http://www.research.ufl.edu/or/about/centers-and-institutes.html>

For more information, contact the unit directly.

Counseling and Wellness Center

The Counseling and Wellness Center (CWC) offers services to currently enrolled graduate students for personal and educational concerns.

Professional counselors offer short-term individual, couples, and group counseling. There is no charge for the Center's confidential services. Topics of services for graduate students often include help with concerns related to academic success, time and stress management skills, anxiety and depression, personal and family relationships, adjustment to the culture, and other issues associated with transition.

Counseling and Wellness Center clinicians also provide a range of consultation and outreach programs to the campus community. Phone or in-person consultation is available for students, parents, faculty, and staff regarding any issues related to student development. The CWC clinicians serve as program resources for a wide variety of student organizations and academic departments. The Center has an extensive training program for selected graduate students. The clinical staff teaches undergraduate and graduate courses in the Departments of Psychology and Counselor Education and guest lecture on a variety of psychological and wellness topics.

All CWC activities are conducted with sensitivity to the diversity of the students on a large, multicultural campus.

For more information, phone (352) 392-1575, or visit <http://www.counseling.ufl.edu>. The CWC is located at 3190 Radio Road (down the street from Lakeside and SW Rec Center).

English Skills for International Students

The University of Florida makes available English language programs to help international graduate students improve their proficiency in English. These programs are 1) the English Language Institute, 2) Academic Written English, and 3) Academic Spoken English.

Applicants whose command of English is not as good as expected may be requested by their departments to attend the English Language Institute (ELI), an intensive English program designed to provide rapid gain in English proficiency. An ELI student may require one, two, or occasionally three semesters of full-time English study before entering Graduate School. Information about ELI is available in 315 Norman Hall.

The Academic Written English (AWE) program is designed to help foreign graduate students improve their writing ability. Applicants whose verbal GRE scores are below 320, or students who have been admitted provisionally with a score lower than required on a TOEFL (550 paper, 80 internet), IELTS (6), or MELAB (77) may be required to take a writing test. Those demonstrating a lower proficiency than needed for successful performance in written tasks as determined by their academic unit may be required to take courses in written English. Information about the AWE program is available at the coordinator's office, 4131 Turlington Hall, telephone (352) 392-0639.

The Academic Spoken English (ASE) program consists, primarily, of the 03 credit supervised ITA teaching course – EAP 5836. This course is required of all international teaching assistants (whose first language is not English) during their first semester of teaching at UF, whose TOEFL-IBT Speaking score is between 23 – 27 or UF SPEAK score is 45 – 50. A 04 credit EAP 5835 course is also offered for students who need to make rapid progress in their oral proficiency in English or who desire to improve their performance on a UF SPEAK test. These two credit-bearing courses are eligible for a graduate tuition waiver. Non-credit ASEP classes intended to help with general oral communication in English skills (fluency, pragmatics, pronunciation) are offered each semester if there is sufficient student demand. Information about ASE can be found at <http://ase.ufl.edu/>.

Gator 1 Card

The Gator 1 Card is the official University of Florida picture ID card. A valid Gator 1 Card must be presented to transact business at University Financial Services, athletic event tickets, Gator Dining accounts, CIRCA computer labs, University Libraries, and all recreational facilities. The Gator 1 Card can be obtained and purchased for \$15.00 at the Gator 1 Central Office located at the UF Bookstore and Welcome Center at the Museum Road entrance. An official picture ID (military ID, passport, or driver's license) is required. A student's spouse or domestic partner may also obtain a Gator 1 ID; verification of eligibility for a spouse or domestic partner is performed by Student Legal Services. For information and instructions visit their website at <https://www.studentlegalservices.ufl.edu/Gator1Registration.aspx>. After Student Legal Services approves the request, contact the Gator 1 Central Office to obtain the ID Card. The cost of the card is \$15.00; payment may be made with cash, check or a credit card. The Gator 1 Central Office may be contacted at 352-392-8343.

Graduate Student E-mail Listserv, GatorLink, and myUFL Portal

The Graduate School communicates directly with enrolled graduate students via e-mail using GatorLink e-mail addresses. **Students must establish their GatorLink account and must check it regularly.** GatorLink has a website at <http://www.gatorlink.ufl.edu> to create and modify an account. The Graduate School cannot maintain personal e-mail addresses.

The Gatorlink e-mail addresses of all currently enrolled graduate students are automatically added to the Graduate School's Graduate Student listserv. **A student cannot opt out of receiving these messages.** Messages contain time-sensitive information about important deadlines. If you choose to forward GatorLink messages to another e-mail address, be aware that some commercial e-mail clients may filter out these messages. Therefore, you must actively check your GatorLink account separately. An archive of messages is available at <http://lists.ufl.edu/archives/gradstudent-1.html>.

The myUFL Portal <http://my.ufl.edu> has a student page that contains a graduate student section. Information about grants and fellowships, workshops, and other items relevant to graduate education are posted at this site. Students should subscribe to this section and check it regularly.

Graduate Newsletter

EXCEL, the Graduate School newsletter, is published online each spring to highlight graduate education at UF. For more information or to contribute a topic, contact the Graduate School Associate Director, phone 392-6622.

Graduate Minority Programs

The Office of Graduate Minority Programs (OGMP) is defined by its student-centered support services. The OGMP administers various multicultural educational programs that support and foster an intellectually and culturally diverse student population.

The OGMP's staff accomplishes this by actively working with academic units to recruit and retain students who are underrepresented in their field of study (women in engineering, men in nursing, etc.), low-income, or first-generation students, as well as ethnic/cultural minorities (African Americans, Hispanics, Native Alaskans [Aleuts and Eskimos], Native Americans, and Native Pacific Islanders).

Specialized Programs for Recruitment, Retention and Completion

Recruitment activities occur through Graduate School programs, including the Fall and Spring two-day Campus Visitation Program (CVP), the Graduate School Information Day, and the HBCU-UF Master's to the PhD Pathway Project. Student funding opportunities are available through the Florida Board of Education (BOE) Summer Fellowship Program, Florida A&M University (FAMU) Feeder Program, McKnight Doctoral Fellowships, UF/SFC Faculty Development Project, National Consortium for Graduate Degrees for Minorities in Engineering and Sciences, Inc. (GEM) Fellowships, McNair Graduate Assistantship Program, NSF Florida-Georgia Louis Stokes Alliance for Minority Participation Bridge to the Doctorate, and the NSF Atlantic Coast-Social, Behavioral and Economic Sciences Alliance. Retention and completion support programs include the Supplemental Tuition Retention Award, Delores Auzenne Dissertation Award, Graduate School Dissertation Award, and Graduate School Doctoral Research Travel Award. For more information, visit [OGMP's website](#).

Graduate Professional Development

The Office of Graduate Professional Development (OGPD) helps graduate students gain information, insights and skills they can use in academia and the job market. OGPD works closely with the Graduate Student Advisory Council (GSAC) to host professional development workshops each fall and spring semester. These workshops cover topics such as effective time management, research strategies, preparing for examinations and final defenses, publishing manuscripts, and obtaining student grants. Announcements of these events, and deadlines for all award programs, are made through the Graduate Student Listserv.

For more information, visit the website at <http://graduateschool.ufl.edu/student-life-and-support/diversity-programs>.

Graduate School Editorial Office

The Graduate School Editorial Office provides [format requirements](#) for theses and dissertations on the [editorial page of the Graduate School website](#) in order to help students prepare their manuscripts for submission to the Editorial Office. The Graduate School Editorial Office facilitates the thesis and dissertation process, by providing clear guidelines and checklists, and by outlining the procedures to follow when completing the thesis or dissertation. In order to complete degree requirements, all thesis and dissertation students must gain clearance status with the Editorial Office by each of the posted deadlines for the term in which they intend for the degree to be awarded.

The following procedures apply to the Graduate School's editorial services to students:

Upon submission to the Graduate School Editorial Office, a thesis or dissertation should be near-final and must be completely formatted. It will not be accepted as meeting first submission requirements in draft form.

Additionally, master's theses must be orally defended before making submission to the Graduate School Editorial Office. Accordingly, the Final Exam data must be posted to GIMS by the department, before the document can be submitted to the Editorial Office for review. Subsequently, a master's student who does not defend the thesis prior to the first submission deadline will not be eligible for a degree award in the current term; nor is the student a clear-prior candidate to the following term, since they were unable to meet the first submission requirement.

The thesis or dissertation must be of publishable quality and must be in a form suitable for publication, using the Graduate School's [format requirements](#) found here.

The student's department is responsible for quality and scholarship.

Graduate Council requires the Graduate School Editorial Office, as agents of the Dean of the Graduate School, to briefly review theses and dissertations for acceptable format, and to make recommendations as needed.

The [Application Support Center](#), although not a part of the Graduate School Editorial Office, provides assistance to students seeking help with the guidelines of the Editorial Office free of charge. Their services are invaluable to students concerned about meeting the submission standards of the Editorial Office. Students should avail themselves of these services long before making first submission to the Editorial Office. Appointments are encouraged, particularly well in advance of deadlines, because seats are extremely limited.

The Graduate School Editorial Office maintains a list of formatters, editors, and binders that students may hire for a fee, if needed; however, the [Application Support Center](#) also offers many formatting and conversion services at reasonable rates as well.

- Checklist for master's theses:
<http://graduateschool.ufl.edu/files/checklist-thesis.pdf>
- Checklist for doctoral dissertations:
<http://graduateschool.ufl.edu/files/checklist-dissertation.pdf>
- Graduate School Editorial Office:
<http://graduateschool.ufl.edu/graduation/thesis-and-dissertation>
- Format requirements:
<http://www.graduateschool.ufl.edu/files/etd-guide.pdf>
- Format examples:
<http://helpdesk.ufl.edu/application-support-center/graduate-editorial-office/format-requirements/examples/>

For more information, contact :
Graduate School Editorial Office
224-B, The Hub
Gainesville, FL
32611-5500

Phone
(352) 392-1282

E-mail
gradedit@aa.ufl.edu

Website
<http://graduateschool.ufl.edu/graduation/thesis-and-dissertation>

Graduate Student Records

Graduate Student Records staff work with academic units to support students at all phases of their graduate careers, from admission through degree certification and graduation. The office is responsible for keeping the official graduate student record and ensuring compliance with all Graduate Council and University policies.

Graduate Student Council

The Graduate Student Council was formed in 1989 to foster interaction among graduate students on campus and to provide an agency for coordinating graduate student activities and programs. The GSC seeks the improvement of graduate student education through active and permanent communication with the Graduate School, the University administration, and the University of Florida Board of Trustees. It also represents the interests of graduate students at the student government, administration, local, state, and national levels. GSC is a dues-paying member of the National Association of Graduate and Professional Students.

Graduate Student Handbook

The Graduate School provides additional information in the online Graduate Student Handbook: <http://www.graduateschool.ufl.edu/student-life-and-support/student-handbook>.

Housing

Graduate students and their families are housed in graduate and family housing villages. All applicants must apply to the University and have a UF ID number. Due to limited space, all students are not guaranteed on campus housing.

For information, go to the Housing website, <http://www.housing.ufl.edu/gfh/choices/>.

To be eligible for Graduate and Family housing, all residents must make normal progress toward a degree in consultation with academic departments and Graduate and Family Housing policies. Please inquire at villages@housing.ufl.edu for more information about general eligibility and/or eligibility as it relates to academic status.

Applying for Housing

Each student must make personal arrangements for housing, either by applying to the Department of Housing and Residence Education for assignment to University housing facilities or by obtaining accommodations off campus.

For application information and to submit an application:
<http://www.housing.ufl.edu/gfh/apply/howto/>

For off-campus housing information:
<http://www.offcampus.ufl.edu/>

Graduate and Family Housing

Village apartments are unfurnished. Residents in all villages must provide their own linens, dishes, rugs, curtains, or other similar items. Electricity is an additional expense and is billed with the rent. For questions about Graduate and Family Housing please email villages@housing.ufl.edu, or call 352.392.2171 extension 10321.

[The Continuum](#) is UF affiliated off-campus Housing. To qualify for residency, Continuum residents must be matriculated, full-time or part-time (or equivalent) students enrolled in a graduate or professional school or a faculty or staff member at UF.

Additional information about all Graduate and Family Housing facilities is available at the following website:
<http://www.housing.ufl.edu/gfh/choices/>

Off Campus Life

The Office of Off Campus Life is part of the Division of Student Affairs and offers resources, services, education and support for students living off campus.

Services include a free Off Campus Housing Locator <http://housing.offcampus.ufl.edu> so students can search for apartments off campus based on price, number of bedrooms, location and several other criteria. Additional resources include the Off Campus Life website www.offcampus.ufl.edu, which features the Gator Guide to Off Campus Life. The Gator Guide includes tips for finding off campus housing, average rental costs, lease information, safety information, transportation information and much more. Off Campus Life also provides one-on-one meetings for students looking for off campus housing. All resources and services are free to students. We are happy to help you with your questions and hope to see you at an upcoming OCL event.

To schedule an appointment or for questions:

- visit the Off Campus Life website, www.offcampus.ufl.edu
- stop by the Off Campus Life office, which is located in 311 Peabody Hall
- call Off Campus Life at (352) 392-1207

Like Off Campus Life on Facebook:

<http://www.facebook.com/UFOffCampusLife>

Follow OCL on Twitter:

<https://twitter.com/UFOffCampusLife>

Ombuds

The Office of the University Ombuds was established by the state legislature and reports through the Provost to the President. The Office helps students resolve problems and conflicts. It offers an informal avenue of redress for students' problems and grievances that arise in the course of interacting with the institution. By considering the problems in an unbiased way, the Ombuds works to achieve a fair resolution while protecting the rights of all involved parties.

Resolving student academic issues: The Office of the Ombuds deals with student concerns of an academic nature. In almost all instances, students should first contact the instructor, the academic unit chair, and the college dean before seeking help from the Ombuds, although in some rare circumstances earlier contact with the University Ombuds is beneficial.

Resolving student non-academic issues: In many instances, non-academic issues can be easily and readily resolved for students merely by facilitating direct communication and effective listening. For other problems not related to academic issues, the Offices of the Dean of Students and the University Ombuds may provide help or direct students to contact the appropriate campus office.

For more information, visit <http://www.ombuds.ufl.edu>.

Research and Teaching Services

The University of Florida Graduate School offers research opportunities in a variety of fields. Our [colleges and departments](#) offer numerous [majors](#) and [interdisciplinary research](#) options. In addition, the University of Florida Libraries and the University Press of Florida offer extensive collections to guide your research. For information on these services and UF's state-of-the-art computer facilities, art galleries, performing arts centers, and museums, see the [Research and Teaching Services Section](#) of this catalog, where you can also find helpful information about [UF's Office of Research](#).

University of Florida & UF Health Speech and Hearing Center

Faculty in the Department of Speech, Language, and Hearing Sciences see patients in the Speech and Hearing Center located at UF Health, as well as at UF Health Rehab at Magnolia Parke, UF Health Hearing Center at Hampton Oaks, and UF Health Hearing Center at Park Avenue. Our clinics serve the needs of the individual from initial evaluation through the rehabilitation process.

Members of our clinical staff are all Board Certified & Florida Licensed Audiologists and Speech-Language Pathologists. We are committed to maintaining the highest standard of excellence in all areas of service to the patient. Our clinics are premier centers for delivering speech, language, swallowing, hearing and balance services to individuals of all ages.

Speech & Hearing Center
2nd Floor, Dental Tower
1600 S.W. Archer Road
Gainesville, Florida 32610
Room: D2-055

Speech Pathology: (352) 273-5871
Audiology: (352) 273-5555

Fax: (352) 846-1565

Student Health Care Center, Infirmary Building, 280 Fletcher Drive

Building a Healthy Foundation for The Gator Nation. The Student Health Care Center (SHCC) is an accredited outpatient clinic offering a wide variety student-focused services, including: General Medical Care/Primary Care; Health Counseling/Immunizations (flu shots, vaccinations for travel, etc.); Lab and X-ray/EKG Services; Pharmacy and Mini Drug Store; Sexual Health Services; Allergy Injection Therapy; Massage Therapy (SHCC@Corry Village); Nutrition Services; Physical Therapy (operated by Shands Rehab Services); Sports Medicine Clinic; and Women's Clinic.

Please CALL FIRST to be seen: (352) 392-1161. SHCC staff is comprised of licensed, board-certified physicians (MDs), physician assistants (PAs), advanced registered nurse practitioners (ARNPs), registered nurses (RNs), health support technologists (HSTs) and many others who pride themselves in helping each student achieve maximum physical and emotional health so that each may participate fully in the educational and personal growth opportunities afforded by the University.

The tuition-included health fee helps pay for basic evaluations, but does not cover all possible charges at the SHCC. Patients are financially responsible for items including, but not limited to: physicals; procedures; X-rays; lab tests; medications; medical equipment; massage; and physical therapy. Private health insurance plans are accepted for payment of covered services, and you can submit/verify your coverage online; visit the "Fees & Insurance" area of the SHCC website at <http://shcc.ufl.edu/fees-and-insurance/> for more information about charges, billing and health insurance. NOTE: The health fee is not considered health insurance.

Students are encouraged to view an introductory video and review basic information about the SHCC by visiting the "New Students: General Information" area of the SHCC website at <http://shcc.ufl.edu/new-students/>.

UF International Center (UFIC)

Located on 1765 Stadium Rd. Suite 170, Hub, the University of Florida International Center (UFIC), through Exchange Visitor Services, International Student Services, Study Abroad Services,

and Program Development, serves in a leadership and facilitation role to further the University's international agenda, providing assistance and support to faculty, staff, administrators, and students as well as external stakeholders in their international activities. In addition to assisting these clients, the Center also functions to enhance the University's ability to pursue and develop international activities and partnerships appropriate to its core mission, motivating and mobilizing the UF community to integrate and sustain high-impact global dimensions in learning, discovery, and engagement, and provides administrative support to assure leadership for this vision.

For more information:

Phone: (352) 392-5323

Fax: (352) 392-5575

E-mail: ufic@ufic.ufl.edu

Website ufic.ufl.edu

Exchange Visitor Services offers administrative, liaison, and support services for foreign national faculty, scholars, researchers and professionals. Additionally Exchange Visitor Services ensures that the university is in compliance with immigration laws and regulations affecting immigration statuses for sponsored foreign nationals and visiting scholars by providing technical and advisory information to the university community. Support services include assistance with immigration regulations compliance, pre-arrival procedures, and orientation to the campus and community.

International Student Services provides support services for international students through immigration document preparation, orientation, immigration services, and various workshops. These services include advising international students on academic, immigration, financial, cultural, and personal issues. All new international students are required to check-in with the International Center.

Study Abroad Services administers a wide range of programs that give students the opportunity to live and study abroad while fulfilling degree requirements. Students can choose among faculty-led summer programs, exchange programs, and independent programs for the summer, a semester, or an academic year as well as spring break, Thanksgiving break and other programs. Various scholarships and other financial aid can be applied to help finance the international academic experience. UF exchange programs enable students to pay UF tuition while studying abroad. Study Abroad program assistants advise applicants on all aspects of UF approved programs, provide pre-departure orientations, and process the foreign transcript on return of the student. Study Abroad program details are available in the UFIC library or on the UFIC website.

Program Development helps UF faculty and students develop programs in international applied research, technical cooperation, workshops, outreach, and other international activities. Working closely with other centers, academic units, and colleges, PD promotes programs and projects that capitalize on the strengths of UF's faculty and staff. UFIC administers the World Citizenship Program, an international internship program, which places students with nongovernmental organizations around the world.

University Writing Studio

The University Writing Studio (formerly the Writing Center) is part of the College of Liberal Arts and Sciences. Located in 302 Tigert Hall, the Studio's graduate student tutors offer one-on-one tutoring and writing help for both undergraduate and graduate students. The Studio often helps people with application essays and personal statements for graduate school applications. It also offers help on papers written for graduate school classes, and theses or dissertations. The Studio guarantees 30 minute sessions to look over a student's writing. Evening tutoring is also offered on the third floor of Library West. Students can make appointments—for either daytime sessions in Tigert or evening sessions in Library West—through our website, www.writing.ufl.edu. Phone (352) 846-1138.

Workshops for Teaching Assistants

The Graduate School and the Teaching Center offer an orientation and a series of workshops for teaching assistants to improve their instructional skills. The orientation and "getting started" workshop are mandatory for all graduate students starting teaching assignments. Some topics included in the workshop series are presentation skills, course and lecture planning, techniques for improving student attention and motivation, group dynamics, testing and grading, use of technology to enhance learning and how to elicit and interpret feedback. TAs who complete a significant percentage of the workshops are awarded certificates. To register or for more information go to TA Development at <https://www.teachingcenter.ufl.edu>, call the Teaching Center, 392-2010, or visit the office on the ground level, Southwest Broward Hall. Teaching at the University of Florida: A Handbook for Teaching Assistants is available at https://www.teachingcenter.ufl.edu/ta_development.html.

Graduate Degrees

The information in this catalog is current as of July 2014. Please contact individual programs for any additional information or changes.

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[Listing of Degrees and Programs](#)

[Requirements for Master's Degrees](#)

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[Specialized Graduate Degrees](#)

[Engineer](#)

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[Nontraditional Programs](#)

[Concurrent Graduate Programs](#)

[Joint Degree Programs](#)

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Definitions

Degree is the title conferred by the University on completing the academic program, for example, Doctor of Philosophy. Some degrees include the name of the field of study (Master of Architecture, Master of Education). Others (Master of Arts, Master of Science) do not.

Program (also referred to as the major) is the student's primary field of study. Programs offered at UF are approved by the Graduate Council, Faculty Senate, Board of Trustees, and Florida Board of Governors (specialist and doctoral degrees). The degree and program name appear on the student's transcript. Available programs are identified under the degree name in the list of graduate degrees and programs.

Catalog year refers to the rules in effect during the first year a degree-seeking student enrolls in a program; the set of requirements a student must fulfill. If the student takes time off, then the catalog year is the academic year of readmission.

Co-major is a course of study allowing two majors for one Ph.D. degree. Each co-major must be approved by the Graduate Council.

Combined degree program is a combined bachelor's and master's degree program allowing an academically advanced undergraduate student to take graduate courses before completing the bachelor's degree and to count 12 graduate credits toward both degrees. Students admitted into a combined program will normally have above average GPAs and superior scores on the verbal, quantitative, and analytical writing portions of the GRE. Individual academic units determine whether a combined degree program is appropriate. Combined degree programs established before January 1, 2003, may have other requirements.

Concentration is a subprogram in a major. Concentrations offered at UF are approved by the Graduate Council. The concentration, degree, and program may appear on the student transcript.

Concurrent degree program is simultaneous study on an individualized basis that leads to two master's degrees in two different graduate programs or two master's degrees in the same major. Such a program is initiated by the student and requires prior approval of each academic unit and the Graduate School. Graduate School approval for participation in a concurrent degree program must be obtained prior to the published midpoint deadline of the term in which the first degree is to be awarded. Retroactive requests will not be considered. Ultimately, it is the student's responsibility to follow up with the academic units to verify that all Graduate School approvals and deadlines have been met. If the student is approved to pursue two master's degrees, no more than 9 credits of course work from one degree program may be applied toward the second master's degree.

Cooperative degree program leads to a graduate degree awarded by UF with more than one institution authorized to provide course work.

Graduate certificate is a formal collection of courses that form a coherent program of study offered through an academic unit. They are certified by the college, approved by the Graduate Council, and listed on the transcript.

Jointly conferred degree program leads to a graduate degree awarded jointly by UF and another institution.

Joint degree program is a course of study that leads simultaneously to a graduate degree and a professional degree (i.e., D.M.D., D.V.M., J.D., M.D., Pharm.D.). Normally 12 credits of professional courses are counted toward the graduate degree and 12 credits of graduate courses are counted toward the professional degree. Individual academic units determine whether a joint degree program is appropriate. Joint programs established before January 1, 2003, may have other requirements.

Lockstep programs are defined as cohorts who move together in the same enrollment sequence with courses taught in a particular order, on a particular schedule. Students have no flexibility in their program or sequence, and may not drop in and out of courses independently.

Minor is a block of course work completed in any academic unit outside the major. The minor must be approved by the student's academic unit and the academic unit offering the minor. If a minor is chosen, the supervisory committee must include a representative from the minor field. A minor requires at least 6 to 15 credits depending on the degree level. The minor appears on the student's transcript along with the program name and the degree awarded.

Multi-college program is a degree program offered through more than one college.

Specialization is an informal designation used by academic units to indicate areas of research or scholarly strength, and has no formal significance. Track and emphasis are similar unofficial terms. No tracks, emphases, or specializations appear in official lists in this catalog or on the student transcript.

Supervisory Committee (thesis and dissertation degrees): All graduate degrees must have graduate faculty oversee the student's program of study and progress. For thesis and dissertation degrees, this oversight authority is accomplished by a formal committee. These committees have slightly different criteria based on the particular degree. Thesis and dissertation committees are monitored by the Graduate School as part of degree certification using information entered into the Graduate Information Management System (GIMS).

Supervisory Committee (non-thesis degrees): For non-thesis degree programs, the oversight is at the academic unit/department/college level only. Non-thesis programs may choose to have a formal committee or an alternate structure as determined by the program's graduate faculty and consistent with academic unit policies. The oversight authority will be considered as the supervisory committee. Units are able to enter their internal information into GIMS as a convenience. Regardless of degree program, any student with a minor must have the name of the graduate faculty member overseeing the minor entered into GIMS.

All other degree combinations that involve a graduate degree as at least one component (not addressed in the above definitions) require a formal approval process through the academic units offering the degree programs and the Graduate School.

Taking multiple courses within a discipline does not constitute admission to that discipline's graduate programs.

The primary/home academic unit must contact the Graduate School's Student Records Unit for procedural details and deadlines. In all cases, each academic unit must submit appropriate programs of study to the Graduate School for review. Graduate School approval for participation must be obtained prior to the published Midpoint deadline of the term in which the first degree is to be awarded. Retroactive requests will not be considered.

Ultimately, it is the student's responsibility to follow up with the academic units to verify that all Graduate School approvals and deadlines have been met.

Listing of Degrees and Programs

See [the Majors Section of this catalog](#) for specializations in the approved programs.

T=thesis or dissertation N=non-thesis or no dissertation.
Degree names and correct abbreviations are listed in bold.
Majors are listed in standard type.
Concentrations are listed under the major in italics.

Graduate Degrees Offered by the University of Florida

Master of Accounting (MAcc.)^N
Accounting^N

Master of Advertising (MAdv.)^T
Advertising^T

Master of Agribusiness (MAB.)^N
Food and Resource Economics^N
Tropical Conservation and Development^N

Master of Architecture (MArch.)^T
Architecture^T
Historic Preservation^T

Sustainable Architecture^TSustainable Design^T**Master of Arts (M.A.)^{T/N}**Anthropology^{T/N}Historic Preservation^{T/N}Tropical Conservation and Development^{T/N}Art^TDigital Arts and Sciences^TArt Education^{T/N}Art History^TArts in Medicine^NBusiness Administration^{T/N}Marketing^{T/N}Classical Studies^TCommunication Sciences and Disorders^{T/N}Criminology, Law, and Society^{T/N}Digital Arts and Sciences^TEconomics^{T/N}English^{T/N}French and Francophone Studies^{T/N}Geography^TApplications of Geographic Technologies^TGeographic Information Systems^TTropical Conservation and Development^TWetland Sciences^TGerman^{T/N}History^{T/N}Historic Preservation^{T/N}Jewish Studies^{T/N}International Business^{T/N}Latin^TLatin American Studies^TTropical Conservation and Development^TLinguistics^{T/N}Mathematics^{T/N}Museology^THistoric Preservation^TPhilosophy^{T/N}Political Science - International Relations^{T/N}Political Science^{T/N}International Development Policy and Administration^{T/N}Political Campaigning^{T/N}Public Affairs^{T/N}Tropical Conservation and Development^{T/N}Psychology^{T/N}Religion^{T/N}Jewish Studies^{T/N}Tropical Conservation and Development^{T/N}Women's/Gender Studies^{T/N}Sociology^{T/N}Tropical Conservation and Development^{T/N}Spanish^{T/N}Women's Studies^{T/N}**Master of Arts in Education (M.A.E.)^T**Curriculum and Instruction^TEarly Childhood Education^TEducational Leadership^TElementary Education^TEnglish Education^TMarriage and Family Counseling^TMathematics Education^TMental Health Counseling^TReading Education^TResearch and Evaluation Methodology^TSchool Counseling and Guidance^TSchool Psychology^TScience Education^TSocial Studies Education^TSpecial Education^TStudent Personnel in Higher Education^T**Master of Arts in Mass Communication (M.A.M.C.)^{T/N}**Mass Communication^{T/N}

Master of Arts in Teaching (M.A.T.)^N

Anthropology^N
 Tropical Conservation and Development^N
 French and Francophone Studies^N
 Latin^N
 Latin American Studies^N
 Tropical Conservation and Development^N
 Mathematics^N
 Philosophy^N
 Political Science - International Relations^N
 Spanish^N

Master of Arts in Urban and Regional Planning (MAURP.)^T

Urban and Regional Planning^T
 Geographic Information Systems^T
 Historic Preservation^T
 Sustainable Design^T
 Tropical Conservation and Development^T
 Wetland Sciences^T

Master of Business Administration (M.B.A.)^N

Business Administration^N
 Competitive Strategy^N
 Entrepreneurship^N
 Finance^N
 Global Management^N
 Graham-Buffett Security Analysis^N
 Human Resource Management^N
 Information Systems and Operations Management^N
 International Studies^N
 Latin American Business^N
 Management^N
 Marketing^N
 Real Estate^N
 Sports Administration^N

Master of Construction Management (M.C.M.)^N

Construction Management^N
 Historic Preservation^N
 Sustainable Construction^N
 Sustainable Design^N

Master of Education (M.Ed.)^N

Curriculum and Instruction^N
 Early Childhood Education^N
 Educational Leadership^N
 Elementary Education^N
 English Education^N
 Marriage and Family Counseling^N
 Mathematics Education^N
 Mental Health Counseling^N
 Reading Education^N
 Research and Evaluation Methodology^N
 School Counseling and Guidance^N
 School Psychology^N
 Science Education^N
 Social Studies Education^N
 Special Education^N
 Student Personnel in Higher Education^N

Master of Engineering (M.E.)^{T/N}

Aerospace Engineering^{T/N}
 Agricultural and Biological Engineering^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Biomedical Engineering^{T/N}
 Chemical Engineering^{T/N}
 Civil Engineering^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Coastal and Oceanographic Engineering^{T/N}
 Computer Engineering^{T/N}
 Electrical and Computer Engineering^{T/N}
 Environmental Engineering Sciences^{T/N}

Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Industrial and Systems Engineering^{T/N}
 Materials Science and Engineering^{T/N}
 Mechanical Engineering^{T/N}
 Nuclear Engineering Sciences^{T/N}

Master of Fine Arts (M.F.A.)^T

Art^T
 Creative Writing^T
 Theatre^T

Master of Fire and Emergency Services (M.F.E.S.)^N

Fire and Emergency Services^N

Master of Fisheries and Aquatic Sciences (M.F.A.S.)^N

Fisheries and Aquatic Sciences^N
 Ecological Restoration^N
 Geographic Information Systems^N
 Natural Resource Policy and Administration^N
 Wetland Sciences^N

Master of Forest Resources and Conservation (M.F.R.C.)^N

Forest Resources and Conservation^N
 Agroforestry^N
 Ecological Restoration^N
 Geographic Information Systems^N
 Geomatics^N
 Natural Resource Policy and Administration^N
 Tropical Conservation and Development^N
 Wetland Sciences^N

Master of Health Administration (M.H.A.)^N

Health Administration^N

Master of Health Science (M.H.S.)^{T/N}

Environmental and Global Health^N
 One Health^N
 Occupational Therapy^{T/N}

Master of Historic Preservation (M.H.P.)^T

Historic Preservation^T

Master of Interior Design (M.I.D.)^T

Interior Design^T
 Historic Preservation^T
 Sustainable Design^T

Master of International Business (M.I.B.)^N

International Business^N

Master of International Construction Management (M.I.C.M.)^N

International Construction Management^N
 Historic Preservation^N

Master of Landscape Architecture (M.L.A.)^T

Landscape Architecture^T
 Geographic Information Systems^T
 Historic Preservation^T
 Sustainable Design^T
 Wetland Sciences^T

Master of Latin (M.L.)^N

Latin^N

Master of Laws in Comparative Law (LL.M.Comp.Law)^N

Comparative Law^N
 Tropical Conservation and Development^N

Master of Laws in Environmental and Land Use Law (LL.M.EL.U.)^N

Environmental and Land Use Law^N

Master of Laws in International Taxation (LL.M.Int)^N

International Taxation^N

Master of Laws in Taxation (LL.M.Tax.)^N

Taxation^N

Master of Music (M.M.)^{T/N}

Music^T

Choral Conducting^T

Composition^T

Electronic Music^T

Ethnomusicology^T

Instrumental Conducting^T

Music Education^T

Music History and Literature^T

Music Theory^T

Performance^T

Sacred Music^T

Music Education^{T/N}

Choral Conducting^{T/N}

Composition^{T/N}

Electronic Music^{T/N}

Ethnomusicology^{T/N}

Instrumental Conducting^{T/N}

Music History and Literature^{T/N}

Music Theory^{T/N}

Performance^{T/N}

Piano Pedagogy^{T/N}

Master of Occupational Therapy (M.O.T.)^N

Occupational Therapy^N

Master of Public Health (M.P.H.)^N

Public Health^N

Biostatistics^N

Environmental Health^N

Epidemiology^N

Health Management and Policy^N

Public Health Practice^N

Social and Behavioral Sciences^N

Master of Science (M.S.)^{T/N}

Aerospace Engineering^{T/N}

Agricultural and Biological Engineering^{T/N}

Geographic Information Systems^{T/N}

Hydrologic Sciences^{T/N}

Wetland Sciences^{T/N}

Agricultural Education and Communication^{T/N}

Tropical Conservation and Development^{T/N}

Agonomy^{T/N}

Agroecology^{T/N}

Geographic Information Systems^T

Tropical Conservation and Development^{T/N}

Animal Molecular and Cellular Biology^T

Animal Sciences^{T/N}

Applied Physiology and Kinesiology^{T/N}

Athletic Training/Sports Medicine^{T/N}

Biobehavioral Science^{T/N}

Clinical Exercise Physiology^{T/N}

Exercise Physiology^{T/N}

Human Performance^{T/N}

Astronomy^{T/N}

Biochemistry and Molecular Biology^T

Biomedical Engineering^{T/N}

Medical Physics^{T/N}

Biostatistics^N

Botany^T

Tropical Conservation and Development^T

Wetland Sciences^T

Business Administration^{T/N}

Marketing^{T/N}

Retailing^{T/N}

Chemical Engineering^{T/N}

Chemistry^{T/N}

Civil Engineering^{T/N}

Geographic Information Systems^{T/N}

Hydrologic Sciences^{T/N}

Wetland Sciences^{T/N}

Coastal and Oceanographic Engineering^{T/N}

Computer Engineering^{T/N}

Digital Arts and Sciences^{T/N}
 Computer Sciences^{T/N}
 Dental Sciences^T
 Endodontics^T
 Orthodontics^T
 Periodontics^T
 Prosthodontics^T
 Digital Arts and Sciences^T
 Electrical and Computer Engineering^{T/N}
 Entomology and Nematology^{T/N}
 Entrepreneurship^{T/N}
 Environmental Engineering Sciences^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Epidemiology^T
 Biostatistics^T
 Health Management and Policy^T
 Family, Youth and Community Sciences^{T/N}
 Community Studies^{T/N}
 Family and Youth Development^{T/N}
 Nonprofit Organization Development^{T/N}
 Finance^{T/N}
 Fisheries and Aquatic Sciences^T
 Ecological Restoration^T
 Geographic Information Systems^T
 Natural Resource Policy and Administration^T
 Wetland Sciences^T
 Food and Resource Economics^{T/N}
 Agribusiness^{T/N}
 Hydrologic Sciences^{T/N}
 Toxicology^{T/N}
 Tropical Conservation and Development^{T/N}
 Food Science and Human Nutrition^{T/N}
 Nutritional Sciences^{T/N}
 Forest Resources and Conservation^{T/N}
 Agroforestry^{T/N}
 Ecological Restoration^{T/N}
 Geographic Information Systems^{T/N}
 Geomatics^{T/N}
 Hydrologic Sciences^{T/N}
 Natural Resource Policy and Administration^{T/N}
 Tropical Conservation and Development^{T/N}
 Wetland Sciences^{T/N}
 Geography^T
 Applications of Geographic Technologies^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Geology^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Health Education and Behavior^{T/N}
 Horticultural Sciences^{T/N}
 Environmental Horticulture^{T/N}
 Horticultural Sciences^{T/N}
 Industrial and Systems Engineering^{T/N}
 Information Systems and Operations Management^{T/N}
 Supply Chain Management^{T/N}
 Interdisciplinary Ecology^{T/N}
 Agricultural and Biological Engineering^{T/N}
 Agricultural Education and Communication^{T/N}
 Agronomy^{T/N}
 Anthropology^{T/N}
 Architecture^{T/N}
 Biochemistry and Molecular Biology^{T/N}
 Botany^{T/N}
 Business Administration^{T/N}
 Chemistry^{T/N}
 Civil Engineering^{T/N}
 Climate Science^{T/N}
 Coastal and Oceanographic Engineering^{T/N}
 Economics^{T/N}

English^{T/N}
 Entomology and Nematology^{T/N}
 Environmental Engineering Sciences^{T/N}
 Family, Youth and Community Sciences^{T/N}
 Farming Systems^{T/N}
 Fisheries and Aquatic Sciences^{T/N}
 Food and Resource Economics^{T/N}
 Food Science^{T/N}
 Forest Resources and Conservation^{T/N}
 Foundations of Education^{T/N}
 Geographic Information Systems^{T/N}
 Geography^{T/N}
 Geology^{T/N}
 Health and Human Performance^{T/N}
 Horticultural Sciences^{T/N}
 Hydrologic Sciences^{T/N}
 Landscape Architecture^{T/N}
 Mathematics^{T/N}
 Microbiology and Cell Science^{T/N}
 Nuclear and Radiological Engineering^{T/N}
 Philosophy^{T/N}
 Political Science^{T/N}
 Religion^{T/N}
 Sociology^{T/N}
 Soil and Water Science^{T/N}
 Statistics^{T/N}
 Tropical Conservation and Development^{T/N}
 Urban and Regional Planning^{T/N}
 Veterinary Medical Sciences^{T/N}
 Wetland Sciences^{T/N}
 Wildlife Ecology And Conservation^{T/N}
 Women's/Gender Studies^{T/N}
 Zoology^{T/N}
 Management^{T/N}
 Health Care Risk Management^{T/N}
 Materials Science and Engineering^{T/N}
 Mathematics^{T/N}
 Mechanical Engineering^{T/N}
 Medical Sciences^T
 Aging and Geriatric Practice^T
 Clinical and Translational Science^T
 Health Outcomes and Policy^T
 Translational Biotechnology^T
 Microbiology and Cell Science^{T/N}
 Medical Microbiology and Biochemistry^{T/N}
 Nuclear Engineering Sciences^{T/N}
 Physics^{T/N}
 Plant Molecular and Cellular Biology^T
 Plant Pathology^{T/N}
 Psychology^{T/N}
 Real Estate^{T/N}
 Recreation, Parks, and Tourism^{T/N}
 Historic Preservation^{T/N}
 Natural Resource Recreation^{T/N}
 Therapeutic Recreation^{T/N}
 Tourism^{T/N}
 Tropical Conservation and Development^{T/N}
 Soil and Water Science^{T/N}
 Agroecology^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Tropical Conservation and Development^{T/N}
 Wetland Sciences^{T/N}
 Sport Management^{T/N}
 Historic Preservation^{T/N}
 Tropical Conservation and Development^{T/N}
 Veterinary Medical Sciences^{T/N}
 Forensic Toxicology^{T/N}
 Shelter Medicine^{T/N}
 Veterinary Forensic Sciences^{T/N}
 Wildlife Ecology and Conservation^{T/N}
 Geographic Information Systems^{T/N}
 Tropical Conservation and Development^{T/N}
 Wetland Sciences^{T/N}
 Zoology^{T/N}

Tropical Conservation and Development^{T/N}
Wetland Sciences^{T/N}

Master of Science in Architectural Studies (M.S.A.S.)^T

Architecture^T
Historic Preservation^T
Sustainable Architecture^T
Sustainable Design^T

Master of Science in Construction Management (M.S.C.M.)^T

Construction Management^T
Historic Preservation^T
Sustainable Construction^T
Sustainable Design^T

Master of Science in Entrepreneurship (M.S.E.N.T.)^N

Entrepreneurship^N

Master of Science in Information Systems and Operations Management (M.S.I.S.O.M.)^N

Information Systems and Operations Management^N
Supply Chain Management^N

Master of Science in Nursing (M.S.Nsg.)^{T/N}

Nursing^{T/N}

Master of Science in Pharmacy (M.S.P.)^{T/N}

Pharmaceutical Sciences^{T/N}
Clinical Pharmacy^{T/N}
Clinical Toxicology^{T/N}
Forensic DNA and Serology^{T/N}
Forensic Drug Chemistry^{T/N}
Forensic Science^{T/N}
Medication Therapy Management^{T/N}
Medicinal Chemistry^{T/N}
Pharmaceutical Chemistry^{T/N}
Pharmaceutical Outcomes and Policy^{T/N}
Pharmacodynamics^{T/N}
Pharmacy^{T/N}

Master of Science in Statistics (M.S.Stat.)^T

Statistics^T

Master of Science in Teaching (M.S.T.)^N

Astronomy^N
Botany^N
Tropical Conservation and Development^N
Wetland Sciences^N
Chemistry^N
Geography^N
Geographic Information Systems^N
Tropical Conservation and Development^N
Wetland Sciences^N
Geology^N
Tropical Conservation and Development^N
Wetland Sciences^N
Mathematics^N
Physics^N
Zoology^N
Tropical Conservation and Development^N
Wetland Sciences^N

Master of Statistics (M.Stat.)^N

Statistics^N

Master of Sustainable Development Practice (M.D.P.)^N

Sustainable Development Practice^N

Engineer (Engr.)^{T/N}

Chemical Engineering^{T/N}
Industrial and Systems Engineering^{T/N}

Specialist in Education (Ed.S.)^N

Curriculum and Instruction^N
Educational Leadership^N
Higher Education Administration^N
Marriage and Family Counseling^N
Mental Health Counseling^N

Research and Evaluation Methodology^N
 School Counseling and Guidance^N
 School Psychology^N
 Special Education^N
 Student Personnel in Higher Education^N

Doctor of Audiology (Au.D.)^N

Audiology^N

Doctor of Education (Ed.D.)^T

Counseling and Counselor Education^T
 Marriage and Family Counseling^T
 Mental Health Counseling^T
 School Counseling and Guidance^T
 Curriculum and Instruction^T
 Educational Leadership^T
 Educational Policy^T
 Higher Education Administration^T
 Educational Policy^T
 Marriage and Family Counseling^T
 Mental Health Counseling^T
 Research and Evaluation Methodology^T
 School Counseling and Guidance^T
 School Psychology^T
 Special Education^T

Doctor of Philosophy (Ph.D.)^T

Aerospace Engineering^T
 Agricultural and Biological Engineering^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Wetland Sciences^T
 Agricultural Education and Communication^T
 Tropical Conservation and Development^T
 Agronomy^T
 Toxicology^T
 Tropical Conservation and Development^T
 Animal Molecular and Cellular Biology^T
 Animal Sciences^T
 Animal Molecular and Cellular Biology^T
 Anthropology^T
 Historic Preservation^T
 Tropical Conservation and Development^T
 Women's/Gender Studies^T
 Art History^T
 Astronomy^T
 Biochemistry and Molecular Biology^T
 Animal Molecular and Cellular Biology^T
 Imaging Science and Technology^T
 Mammalian Genetics^T
 Toxicology^T
 Biomedical Engineering^T
 Clinical and Translational Science^T
 Medical Physics^T
 Biostatistics^T
 Botany^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Business Administration^T
 Accounting^T
 Finance^T
 Information Systems and Operations Management^T
 Insurance^T
 Management^T
 Marketing^T
 Quantitative Finance^T
 Real Estate and Urban Analysis^T
 Chemical Engineering^T
 Chemistry^T
 Clinical and Translational Science^T
 Imaging Science and Technology^T
 Civil Engineering^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Wetland Sciences^T
 Classical Studies^T

Coastal and Oceanographic Engineering^T
 Communication Sciences and Disorders^T
 Computer Engineering^T
 Counseling and Counselor Education^T
 Marriage and Family Counseling^T
 Mental Health Counseling^T
 School Counseling and Guidance^T
 Counseling Psychology^T
 Criminology, Law, and Society^T
 Curriculum and Instruction^T
 Design, Construction, and Planning^T
 Construction Management^T
 Historic Preservation^T
 Interior Design^T
 Landscape Architecture^T
 Urban and Regional Planning^T
 Economics^T
 Educational Leadership^T
 Educational Policy^T
 Electrical and Computer Engineering^T
 English^T
 Entomology and Nematology^T
 Environmental Engineering Sciences^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Wetland Sciences^T
 Epidemiology^T
 Clinical and Translational Science^T
 Fisheries and Aquatic Sciences^T
 Ecological Restoration^T
 Geographic Information Systems^T
 Natural Resource Policy and Administration^T
 Wetland Sciences^T
 Food and Resource Economics^T
 Hydrologic Sciences^T
 Toxicology^T
 Tropical Conservation and Development^T
 Food Science^T
 Toxicology^T
 Forest Resources and Conservation^T
 Agroforestry^T
 Geographic Information Systems^T
 Geomatics^T
 Hydrologic Sciences^T
 Natural Resource Policy and Administration^T
 Toxicology^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Genetics and Genomics^T
 Clinical and Translational Science^T
 Geography^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Geology^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 German^T
 Women's/Gender Studies^T
 Health and Human Performance^T
 Applied Physiology and Kinesiology^T
 Biobehavioral Science^T
 Clinical and Translational Science^T
 Exercise Physiology^T
 Health Behavior^T
 Historic Preservation^T
 Recreation, Parks, and Tourism^T
 Sport Management^T
 Health Services Research^T
 Higher Education Administration^T
 Educational Policy^T
 History^T
 Historic Preservation^T

Women's/Gender Studies^T
 Horticultural Sciences^T
 Environmental Horticulture^T
 Horticultural Sciences^T
 Toxicology^T
 Industrial and Systems Engineering^T
 Quantitative Finance^T
 Interdisciplinary Ecology^T
 Agricultural and Biological Engineering^T
 Agricultural Education and Communication^T
 Agronomy^T
 Anthropology^T
 Architecture^T
 Biochemistry and Molecular Biology^T
 Botany^T
 Business Administration^T
 Chemistry^T
 Civil Engineering^T
 Climate Science^T
 Coastal and Oceanographic Engineering^T
 Economics^T
 English^T
 Entomology and Nematology^T
 Environmental Engineering Sciences^T
 Family, Youth and Community Sciences^T
 Farming Systems^T
 Fisheries and Aquatic Sciences^T
 Food and Resource Economics^T
 Food Science^T
 Forest Resources and Conservation^T
 Foundations of Education^T
 Geographic Information Systems^T
 Geography^T
 Geology^T
 Health and Human Performance^T
 Horticultural Sciences^T
 Hydrologic Sciences^T
 Landscape Architecture^T
 Mathematics^T
 Microbiology and Cell Science^T
 Nuclear and Radiological Engineering^T
 Philosophy^T
 Political Science^T
 Religion^T
 Sociology^T
 Soil and Water Science^T
 Statistics^T
 Tropical Conservation and Development^T
 Urban and Regional Planning^T
 Veterinary Medical Sciences^T
 Wetland Sciences^T
 Wildlife Ecology And Conservation^T
 Women's/Gender Studies^T
 Zoology^T
 Linguistics^T
 Marriage and Family Counseling^T
 Mass Communication^T
 Clinical and Translational Science^T
 Materials Science and Engineering^T
 Clinical and Translational Science^T
 Mathematics^T
 Imaging Science and Technology^T
 Quantitative Finance^T
 Mechanical Engineering^T
 Medical Sciences^T
 Biochemistry and Molecular Biology^T
 Clinical and Translational Science^T
 Genetics^T
 Health Outcomes and Policy^T
 Imaging Science and Technology^T
 Immunology and Microbiology^T
 Molecular Cell Biology^T
 Neuroscience^T
 Physiology and Pharmacology^T
 Toxicology^T

Mental Health Counseling^T
 Microbiology and Cell Science^T
 Toxicology^T
 Music^T
 Composition^T
 Music History and Literature^T
 Music Education^T
 Nuclear Engineering Sciences^T
 Imaging Science and Technology^T
 Nursing Sciences^T
 Clinical and Translational Science^T
 Nutritional Sciences^T
 Clinical and Translational Science^T
 Pharmaceutical Sciences^T
 Clinical and Translational Science^T
 Clinical Pharmaceutical Sciences^T
 Medicinal Chemistry^T
 Pharmaceutical Outcomes and Policy^T
 Pharmacodynamics^T
 Pharmacy^T
 Toxicology^T
 Philosophy^T
 Physics^T
 Imaging Science and Technology^T
 Plant Molecular and Cellular Biology^T
 Toxicology^T
 Plant Pathology^T
 Toxicology^T
 Political Science^T
 Educational Policy^T
 Tropical Conservation and Development^T
 Psychology^T
 Clinical and Health Psychology^T
 Clinical and Translational Science^T
 Women's/Gender Studies^T
 Public Health^T
 Environmental Health^T
 One Health^T
 Social and Behavioral Sciences^T
 Rehabilitation Science^T
 Clinical and Translational Science^T
 Religion^T
 Tropical Conservation and Development^T
 Women's/Gender Studies^T
 Research and Evaluation Methodology^T
 Romance Languages^T
 French and Francophone Studies^T
 Spanish^T
 School Counseling and Guidance^T
 School Psychology^T
 Sociology^T
 Tropical Conservation and Development^T
 Women's/Gender Studies^T
 Soil and Water Science^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Special Education^T
 Statistics^T
 Quantitative Finance^T
 Veterinary Medical Sciences^T
 Animal Molecular and Cellular Biology^T
 Clinical and Translational Science^T
 Toxicology^T
 Wildlife Ecology and Conservation^T
 Geographic Information Systems^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Zoology^T
 Animal Molecular and Cellular Biology^T
 Tropical Conservation and Development^T
 Wetland Sciences^T

Doctor of Plant Medicine (D.P.M.)^N

Plant Medicine^NTropical Conservation and Development^N

Requirements for Master's Degrees

The master's degree is conferred only on completing a coherent and focused program of advanced study. Each academic unit sets its own minimum degree requirements beyond the minimum required by the Graduate Council.

General Regulations for Master's Degrees

Graduate School regulations are as follows. Colleges and academic units may have additional regulations beyond those stated below. **Unless otherwise indicated in the next sections on master's degrees, these general regulations apply to all master's degree programs at the University.**

Course requirements: Graduate credit is awarded for courses numbered 5000 and above. The program of course work for a master's degree must be approved by the student's adviser, supervisory committee, or faculty representative of the academic unit. No more than 9 credits from a previous master's degree program may apply toward a second master's degree. These credits are applied only with the written approval of the Dean of the Graduate School.

Major: Work in the major must be in courses numbered 5000 or above. For work outside the major, 6 credits of courses numbered 3000 or above may be taken if part of an approved plan of study.

Minor: Minor work must be in an academic unit other than the major. If an academic unit contributes more than one course (as specified in the curriculum inventory and/or the Graduate Catalog) to the major, the student is not eligible to earn a minor from the contributing academic unit. If a minor is chosen, at least 6 credits of work are required in the minor field. Two 6-credit minors may be taken with the major academic unit's permission. A 3.00 (truncated) GPA is required for minor credit.

Degree requirements: Unless otherwise specified, for any master's degree, the student must earn at least 30 credits as a graduate student at UF. No more than 9 of the 30 credits (earned with a grade of A, A-, B+, or B) may be transferred from institutions approved for this purpose by the Dean of the Graduate School. At least half of the required credits (not counting 6971) must be in the major.

Transfer of credit: Only graduate-level (5000-7999) work with a grade of B or better, is eligible for transfer of credit. A maximum of 15 transfer credits are allowed. These can include no more than 9 credits from institution/s approved by UF, with the balance obtained from postbaccalaureate work at the University of Florida. Credits transferred from other universities are applied toward the degree requirements, but grades earned are not computed in the student's grade point average. Acceptance of transfer of credit requires approval of the student's supervisory committee and the Dean of the Graduate School.

Academic units must submit petitions for transfer of credit for a master's degree during the student's first term of enrollment in the Graduate School.

The supervisory committee is responsible for using established criteria to ensure the academic integrity of course work before accepting graduate transfer credits.

Supervisory committee: The student's supervisory committee must be appointed as soon as possible after the student is admitted to the Graduate School and no later than the second term of graduate study.

Supervisory committees for graduate degree programs are initiated by the student, nominated by the respective academic unit chair, approved by the college dean, and appointed by the Dean of the Graduate School. The Dean of the Graduate School is an ex-officio member of all supervisory committees. Only Graduate Faculty may serve on a supervisory committee. If a student takes fewer than 12 credits in the first term, the deadline is the end of the term during which the student has accumulated 12 or more credits or the end of the second term. If a minor is designated for any degree, a representative from that minor is needed on the supervisory committee. If two minors are designated, two representatives are needed.

The supervisory committee for a master's degree with a thesis should consist of at least two Graduate Faculty members, unless otherwise specified. If a minor is designated, the committee must include a Graduate Faculty member from the minor department.

For a master's degree without thesis, oversight is at the academic unit/department/college level only. Non-thesis programs may choose to have a formal committee or an alternate structure as determined by the program's graduate faculty and consistent with academic unit policies. The oversight authority will be considered as the supervisory committee. Units are able to enter their internal information into GIMS as a convenience. Any student with a minor must have the name of the graduate faculty member overseeing the minor entered into GIMS.

Changes to existing supervisory committee: A student, in consultation with his or her academic unit, may seek changes to an existing supervisory committee. Changes to a student's committee are allowed until midpoint of the term of degree award if the defense has not occurred. No changes are allowed after the defense. For procedural details, contact the major academic unit.

Language requirements: (1) Each academic unit determines whether a reading knowledge of a foreign language is required. The requirement varies from one academic unit to another, and the student should check with the appropriate academic unit for specific information. (2) All candidates must be able to use the English language correctly and effectively, as judged by the supervisory committee.

Examination: Each candidate must pass a final comprehensive examination. Some programs use different terminology, such as *capstone course*. This examination must cover at least the candidate's field of concentration. It must occur no earlier than the term before the degree is awarded.

Time limitation: All work (including transferred credit) counted toward the master's degree must be completed within 7 years before the degree is awarded.

Leave of absence: Any student who will not register at UF for a period of more than 1 term needs prior written approval from the supervisory committee chair for a leave of absence for a designated period of time. This approval remains in the student's departmental file. The Graduate School does not require notification. The student must reapply for admission on return. See *Readmission and Catalog Year*.

Master of Arts and Master of Science

The general requirements for the Master of Arts and the Master of Science degrees also apply to the following degrees: Master of Arts in Education, Master of Arts in Mass Communication, Master of Science in Construction Management, Master of Science in Pharmacy, and Master of Science in Statistics. There are additional requirements for specialized degrees.

Course requirements: A master's degree with thesis requires at least 30 credits including up to 6 credits of Research for Master's Thesis (6971). All thesis students must register for an appropriate number of credits in 6971.

A non-thesis Master of Arts or Master of Science degree requires at least 30 credits. No more than 6 of those credits can be from S/U courses. Non-thesis students cannot use Research for Master's Thesis (6971).

For all master's programs, at least half the required credits (not counting 6971) must be in the major. One or two minors of at least 6 credits each may be taken, but a minor is not required by the Graduate School. Minor work must be in an academic unit other than the major.

Non-thesis M.S. engineering programs: Students in engineering, if working at off-campus centers, must take half the course work from full-time UF faculty members and must pass a comprehensive written examination by a committee recommended by the Dean of the College of Engineering. This written comprehensive examination may be taken at an off-campus site.

Master's thesis requirements: Each master's thesis candidate must prepare and present a thesis that shows independent investigation. It must be acceptable, in form and content, to the

supervisory committee and to the Graduate School. The work must be of publishable quality and must be in a form suitable for publication, guided by the Graduate School's format requirements. The academic unit is responsible for quality and scholarship. Graduate Council requires the Graduate School Editorial Office, as agents of the Dean of the Graduate School, to briefly review theses and dissertations for acceptable format, and to make recommendations as required.

Format requirements and example pages:

graduateschool.ufl.edu/files/etd-guide.pdf

Checklist:

<http://graduateschool.ufl.edu/files/checklist-thesis.pdf>

Application Support Center/Electronic Theses and Dissertation Lab:

<https://asc.helpdesk.ufl.edu/>

Graduate School Editorial Office Information:

<http://graduateschool.ufl.edu/graduation/thesis-and-dissertation>

Gatorlink e-mail requirement: UF requires students to maintain access to their Gatorlink e-mail accounts. Accordingly, the Editorial Office only communicates with students through official Gatorlink e-mail.

Thesis first submission: When first presented to the Graduate School Editorial Office, the thesis must be successfully defended. Therefore, the final examination data must be posted in Graduate Information Management System (GIMS), prior to the student attempting to submit their thesis document for review by the Graduate School's editorial staff. Directly after the oral defense, the Academic Unit must submit the Final Exam Form and the UF Publishing Agreement through (GIMS). Before presentation to the Editorial Office, the thesis should be virtually complete and completely formatted (not in a draft format). Students must be completely familiar with the format requirements of the Graduate School and should work with one of the consultants in the Application Support Center, to troubleshoot the thesis, before attempting to make submission to the editors in the Graduate School Editorial Office. Students who fail to first meet with one of the Lab Consultants often find their document rejected upon First Submission to the Editorial Office, for not meeting the minimum submission standards required for an editorial review.

Should the document pass the submission requirements and appear acceptable for review, the Editorial Office will e-mail the student, using their Gatorlink email address, confirming the submission, and responding with an acceptance e-mail. Should the document not pass first submission requirements, a denial e-mail will instead be sent, advising the student of their options at that time. This notice must be addressed immediately. Once a successful first submission has been achieved and the document has been reviewed by one of the Graduate School's editors, another e-mail is sent, providing editorial feedback to the student and committee chair. The student is responsible for retrieving the thesis, review comments, and resolving any deficits related to the format requirements. Students should promptly make all required changes.

Uploading and submitting the final pdf for Editorial Final Submission: After changes have been made to the satisfaction of the supervisory committee, the Electronic Thesis or Dissertation (ETD) Signature Page is submitted electronically to the Graduate School Editorial Office, via the Graduate Information Management System (GIMS). This must be completed by the Editorial Office's Final Submission Deadline. Once submitted, the student should upload and submit the final pdf of the electronic thesis, using the Editorial Document Management (EDM) system. The document will undergo a final review by one of the Graduate School Representatives. The Editorial Office ensures that the format is acceptable, that all indicated changes were made, and that all of the hyperlinks work within the document. The Graduate School Representative then e-mails the student regarding the status of the ETD. If accepted, no further changes are allowed. If changes are still required, the student should resubmit the corrected document as soon as possible. All documents must be confirmed with final approval emails from the Graduate School Editorial Office by the Final Clearance deadline. This deadline is firm, and no exceptions can be granted. When all changes have been made and approved, the Editorial Office will email the Committee Chair and the student with a message, indicating the student has achieved Editorial Final Clearance with the Graduate School's Editorial Office.

Editorial Final Clearance: Among other requirements (see Checklist above), the final thesis must be confirmed as accepted, by email, by 5:00 p.m. on this deadline. This deadline only applies if all other posted deadlines for the term have been appropriately met. Since there are hundreds of students concurrently completing the process, most students complete all requirements well in advance, in order to ensure they do not face the chance of not graduating within their intended term.

Copyright: The student is automatically the copyright holder, by virtue of having written the thesis. A copyright page should be included immediately after the title page to indicate this.

Thesis language: Theses must be written in English, except for students pursuing degrees in Romance or Germanic languages and literatures. Students in these disciplines, with the approval of their supervisory committees, may write in the topic language. A foreign language thesis should have the Acknowledgments, Abstract, and Biographical Sketch written in English. All page titles before Chapter 1 should also be in English.

Journal articles: A thesis may include journal articles as chapters, if all copyright considerations are addressed appropriately. In such cases, Chapter 1 is a general introduction, tying everything together as a unified whole. The last chapter contains the general conclusions, once again tying everything together into a unified whole. Any chapter representing a journal article requires a footnote at the bottom of the first page of the chapter: "Reprinted with permission from . . ." giving the source, just as it appears in the list of references. The thesis must have only 1 abstract and 1 reference list.

Change from thesis to non-thesis option: Permission of the supervisory committee is needed to change from thesis to non-thesis option. This permission must be forwarded to the Graduate School by midpoint of the final term via the Graduate Information Management System (GIMS). The candidate must meet all the requirements of the non-thesis option as specified above. A maximum of 3 credits earned with a grade of S in 6971 (Research for Master's Thesis) can be counted toward the degree requirements only if converted to credit as A, A-, B+, or B in Individual Work. The supervisory committee must indicate that the work was productive in and by itself and that the work warrants credit as a special problem or special topic course.

Supervisory committee: The student's supervisory committee should be appointed as soon as possible after the student is admitted to the Graduate School and no later than the second term of graduate study. Supervisory committees for graduate degree programs are initiated by the student, nominated by the respective academic unit chair, approved by the college dean, and appointed by the Dean of the Graduate School. The Dean of the Graduate School is an ex-officio member of all supervisory committees. Only Graduate Faculty may serve on a supervisory committee. If a student takes fewer than 12 credits in the first term, the deadline is the end of the term during which the student has accumulated 12 or more credits or the end of the second term. If a minor is designated for any degree, a representative from that minor is needed on the supervisory committee. If two minors are designated, two representatives are needed.

Thesis final examination: When most of the student's course work is completed, and the thesis is in final form, the supervisory committee must examine the student orally or in writing on (1) the thesis, (2) the major subjects, (3) the minor or minors, and (4) matters of a general nature pertaining to the field of study.

The candidate and the supervisory committee chair or co-chair must be physically present together at the same location. With approval of the entire committee, other members may attend the defense remotely, using modern communication technology. If a supervisory committee member cannot be present at the student's final defense, a Graduate Faculty member in the same academic unit may substitute for the absent committee member. No substitutions are allowed for the Chair.

The substitute should sign the Final Examination form on the left side, in the space provided for committee members, noting the name of the absent member. The chair of the student's major academic unit also must indicate the reason for the absence and state that the absent member agreed to this substitution at the final examination. The substitute should not sign the ETD signature page. The original committee member must sign.

The defense date must be fewer than 6 months before degree award. All forms should be signed at the defense: the candidate and the supervisory committee chair sign the UF Publishing Agreement form; and the entire supervisory committee signs the ETD Signature Page and the Final Examination Report. If thesis changes are requested, the supervisory Committee Chair or the Committee's designee may hold the ETD Signature Page, until all requirements are met regarding the thesis. Once all stipulations of the Committee members are satisfied, and before the Editorial Office's Final Submission deadline for the term of intended degree award, verification of completion of this form must be submitted electronically via GIMS.

Non-thesis final comprehensive examination: Non-thesis students must pass a comprehensive written or oral examination on the major and on the minor if a minor is designated. This comprehensive examination must be taken no more than 6 months before the degree is awarded.

Other Master's Degrees

Although the general requirements for the Master of Arts and the Master of Science degrees also apply to the following discipline-specific degrees, there are some important differences. For detailed requirements, see [the Programs Section of this catalog](#). In addition, the Graduate School monitors the following requirements for these specialized degrees.

Master of Accounting

The Master of Accounting (M.Acc.) is the graduate degree for students seeking professional careers in public accounting, business organizations, and government. The M.Acc. program offers three tracks: Audit, Tax, and Generalist.

The recommended curriculum to prepare for a professional career in accounting is the 3/2 five-year program with a joint awarding of the Bachelor of Science in Accounting and the Master of Accounting degrees on satisfactory completion of the 150-credit program. The entry point into the 3/2 is the start of the senior year.

Students who have already completed an undergraduate degree in accounting may enter the 1-year M.Acc. program, which requires 34 credits of course work. At least 20 credits must be in graduate-level accounting, excluding preparatory courses. All students must take a final comprehensive examination. For details about requirements, see *General Regulations* for master's degrees.

M.Acc./J.D. program: This joint program culminates in both the Juris Doctor (J.D.) degree awarded by the College of Law and the Master of Accounting (M.Acc.) degree awarded by the Graduate School. The program is for students with an undergraduate degree in accounting, who are interested in advanced studies in both accounting and law. About 20 credits fewer are needed for the joint program than if the two degrees were earned separately. The two degrees are awarded after completing curriculum requirements for both degrees. Students must take the GMAT (or the GRE), and also the LSAT before admission, and must meet the admission requirements for the College of Law (J.D.) and the Fisher School of Accounting (M.Acc.).

Master of Advertising

The Master of Advertising (M.Adv.) program develops leaders in the profession by giving students theoretical, research, and decision-making skills essential for strategic advertising and integrated communications planning and the opportunity to develop expertise in an area such as account management, research, creative strategy, media planning, international and cross cultural advertising, new technology, special market advertising, and advertising sales management.

Students without a basic course or substantial professional experience in marketing or advertising must complete articulation courses before entering the program. All students must complete a basic statistics course before entering. The M.Adv. requires at least 33 credits and a thesis. Some areas allow a terminal project in lieu of thesis (with permission from the academic unit's Graduate Faculty).

Students select a supervisory committee to guide selection of courses, selection of thesis topic (or project in lieu of thesis), and completion of the thesis or project. At least one committee member must be from the Department of Advertising's Graduate Faculty.

Students complete and orally defend their theses or projects. The student's supervisory committee is responsible for evaluating the thesis or project and the final defense.

Master of Agribusiness

The Master of Agribusiness (M.AB.) is a one-year, thirty-credit hour non-thesis degree program designed for students with no educational background in economics and offers advanced study for students seeking careers in sales, marketing, and management with organizations that operate mainly in the food industry and agribusiness sector. The courses complement the student's undergraduate education and prepare them for careers in private industry, state and federal government, education at secondary and post-secondary institutions, entrepreneurial pursuits, professional schools, financial analysis, agricultural production and marketing, food and consumer goods, and sales firms. The program includes a diversity of students from areas such as Animal Science, Food Science, Horticulture, Agricultural Education and Communication, Wildlife Ecology and Conservation, Agricultural and Biological Engineering, Turfgrass Management, Business Administration and Agronomy.

Contact the Graduate Program in 1170 McCarty Hall for information.

Master of Architecture

The Master of Architecture (M.Arch.) is an accredited graduate degree meeting the professional requirements of the National Architectural Accrediting Board for students who wish to qualify for registration and practice as architects. Candidates are admitted from architectural, related, and unrelated undergraduate backgrounds; professional experience is encouraged but not required.

The M.Arch. requires at least 52 credits, including no more than 6 credits in ARC 6971 or 6979. Course sequences in design history and theory, structures, technology, and practice must be completed. Students are encouraged to propose individual programs of study (outside of required courses), and interdisciplinary work is encouraged.

Master of Arts in Teaching and Master of Science in Teaching

These degrees (M.A.T., M.S.T.) combine graduate study in a discipline with selected education courses and a teaching internship, providing flexible curricula that prepare students for a variety of options including teaching and further graduate work.

Requirements for the degrees are as follows:

- A reading knowledge of one foreign language if required by the student's major.
- Satisfactory completion of at least 36 credits while registered as a graduate student, with work distributed as follows:
- At least 18 credits in the major and 6 credits in the minor.
- Six credits in an academic unit internship in teaching (6943 Internship in College Teaching). Three years of successful teaching experience in a state-certified school may be substituted for the internship requirement, and credits thus made available may be used for further work in the major, the minor, or in education.
- At least one course selected from three or more of the following: social and/or psychological foundations of education; education technology; counselor education; special education, and community college curriculum. Other areas may be added or substituted at the discretion of the supervisory committee. These courses may be used to comprise a minor.
- Off-campus work: At least 8 to 16 credits (at the academic unit's discretion), including at least 6 credits in one term, must be earned on the Gainesville campus. Beyond that, credits earned in off-campus UF courses approved by the Graduate School are accepted if they are appropriate to the student's degree program as determined by the supervisory committee.
- At degree completion, the student needs at least 36 credits in the major for certification purposes.
- The student must pass a final comprehensive examination (written, oral, or both). This examination covers the field of concentration and the minor.

Master of Arts in Urban and Regional Planning

The degree of Master of Arts in Urban and Regional Planning (M.A.U.R.P.) is a graduate degree for professional urban and regional planners and meets the educational requirements for the American Institute of Certified Planners. The program is accredited by the Planning Accreditation Board. General requirements are the same as for other Master of Arts degrees with thesis, except that the minimum registration required is 52 credits including no more than 6 credits in URP 6971 or 6979. All areas allow a project (requiring 6 credits) in lieu of thesis (with permission from the academic unit's Graduate Faculty).

MA.U.R.P./J.D. joint program: A 4-year program leading to the Juris Doctor and Master of Arts in Urban and Regional Planning degrees is offered under the joint auspices of the College of Law and the College of Design, Construction, and Planning, Department of Urban and Regional Planning. For students interested in the legal problems of urban and regional planning, this program blends law studies with relevant course work in the planning curriculum. Students receive both degrees at the end of a 4-year course of study, whereas separate programs would require 5 years. Students must take the GRE and the LSAT before admission, must be admitted to both programs, and must complete the first year of law school course work before commencing law and planning courses. A thesis is required on completing the course work.

Interested students should apply to both the Holland Law Center and the Graduate School, noting on the application the joint nature of their admission requests. For more information on the program, contact the Holland Law Center and the Department of Urban and Regional Planning.

Master of Business Administration

The Master of Business Administration (M.B.A.) degree gives students (1) conceptual knowledge for understanding the functions and behaviors common to business organizations and (2) analytical, problem-solving, and decision-making skills essential for effective management. Emphasis is on developing the student's capacities and skills for business decision making.

The traditional MBA curriculum is structured so that students may extend their knowledge in a specialized field. The program offers certificate programs in: financial services, hospitality management, supply chain management, information systems and operations management, entrepreneurship and technology management, and global management; and concentrations in finance, security analysis, real estate, competitive strategy, marketing, entrepreneurship, information systems and operations management, management, global management, human resource management, Latin American business, international studies, and sports administration.

Admission: Applicants for admission must submit recent official scores from the Graduate Management Admission Test (GMAT) and official transcripts for all previous academic work. All program options require at least two years of full-time professional work experience performed after receiving an acceptable bachelor's degree, along with written essays and personal recommendations from employers. All qualified applicants to the full-time (traditional) program are asked to interview as part of the admissions process. Applicants whose native, first language is not English must submit acceptable scores from one of the following: TOEFL (Test of English as a Foreign Language), IELTS (International English Language Testing System), MELAB (Michigan English Language Assessment Battery) or successful completion of the University of Florida English Language Institute program. Admission is competitive and class size is limited.

A diverse student body is seen as an important asset of the program. Accordingly, the backgrounds of students include a wide range of disciplines and cultures. With the exception of the Option B program, the curriculum assumes no previous academic work in business administration; however, enrolling students find introductory course work in statistics, calculus, and financial accounting beneficial.

For more specific information on other aspects of the program, contact the Office of Admissions, UF MBA Program, 310 Hough Hall, P.O. Box 117152, Gainesville FL 32611-7152, or visit the website, <http://www.floridamba.ufl.edu>.

Course work: A minimum of 48 qualified credits of course work are required for the two-year option, and one-year Option A. The one-year Option B requires a minimum of 32 credits. Credits cannot be transferred from another institution or program.

Options

Traditional MBA Two-Year Option: This 48 credit program requires 4 terms of full-time study over two academic years. Students are admitted for the fall term only; many students spend the summer between academic years working at internships. This option requires at least two years of full-time, post-undergraduate work experience as well as a bachelor's degree from an accredited four year institution.

Traditional MBA One-Year, Option A: This 48 credit program starts in late spring/ early summer and students are expected to complete all coursework within 12 months. Successful candidates are expected to have a bachelor's degree from an accredited four year institution and two years of post-undergraduate work experience.

Traditional MBA One-Year, Option B: This 32 credit program starts in mid-summer and students expected to complete all course work within 10 months. Applicants to this program are required to have a bachelor's degree in business from a four-year accredited institution (conferred within the last seven years) and at least two years of post-undergraduate work experience. Students take primarily graduate business electives during summer B, fall, and spring terms and graduate in May.

Executive MBA Program: A 20-month program for working professionals, students attend classes one extended weekend per month (Friday-Sunday). The program is divided into five terms each lasting about four months. The program starts in August, and includes a one-week two credit international experience. The international study tour is a program requirement; students travel abroad in May for a week of experiential learning through lectures or discussions with local business and government leaders. The tour will include a combination of lectures, group projects and/or site visits. This option requires eight years of post-undergraduate work experience, and students are expected to have people or project management responsibilities in their current positions.

Professional Two-Year MBA: This 27-month program starts in August and January and is designed for professionals who work full time while pursuing their degrees part time. Students attend classes one weekend per month (Saturday-Sunday) and must attend a one-week in-residence elective class. This option requires two years of post-undergraduate work experience.

Professional One-Year MBA: For students with acceptable undergraduate degrees in business (completed within seven years before starting the program), this 16-month option starts in January. Students attend classes one weekend per month (Saturday-Sunday) and must attend a one-week in-residence elective class. The first meeting includes a one-week, on-campus foundations review of basic course work. This option requires two years of post-undergraduate work experience.

Internet Two-Year MBA: This 27-month program starts in September and February and allows students to earn their MBA primarily through class lectures downloaded to their laptops or iPads. Students interact with faculty and classmates via e-mail, synchronous group discussion software, asynchronous class presentation software, and multimedia courseware. Students visit campus one weekend (Saturday-Sunday) every four months. This option requires two years of post-undergraduate work experience.

Internet One-Year MBA: For students with acceptable undergraduate degrees in business (completed within seven years before starting this program), this 16-month option starts in January and August and gives students and faculty the same interactive technology as the Internet Two-Year MBA. Students visit campus one weekend (Saturday-Sunday) every four months. The first meeting includes a one week, on-campus foundations review of basic course work. This option requires two years of post-undergraduate work experience.

Professional MBA in South Florida: This 24 month program starts during the late summer, and is designed for professionals who wish to continue working full time while pursuing their degrees part time. This program includes a one-week two credit international experience. The international study tour is a program requirement; students travel abroad in November for a week of experiential learning through lectures or discussions with local business and government leaders. The tour will include a combination of lectures, group projects, and/or site visits. Students attend classes once every three weeks (Saturday-Sunday) at the UF MBA Sunrise Center in Sunrise, Florida. This option requires two years of post-undergraduate work experience.

M.B.A./M.S. in medical sciences (biotechnology) program: Concurrent studies leading to the Master of Business Administration and Master of Science degrees, offered in cooperation with the College of Medicine, are in response to the needs of businesses engaged in biotechnological sciences. Both degrees can be obtained in 3 years. The program requires 1 year of science courses, 1 year of business courses, and a year devoted to research and electives in business and science. Research is done in one of the Interdisciplinary Center for Biotechnology Research core laboratories. Students must meet the admission and curriculum requirements of both degrees. Requirements of the M.B.A. program are those in effect when an applicant is admitted to the program. A student must at all times remain in good standing in both degree programs to remain in the M.B.A. program. Applicants are expected to have previous professional work experience prior to starting the MBA program.

M.B.A./Ph.D. in medical sciences program: Concurrent studies leading to the Master of Business Administration and Doctor of Philosophy degrees are offered in cooperation with the College of Medicine. This 120-credit program trains research scientists to assume responsibilities as managers of biotechnical industries. Estimated time to complete both degrees is 5 to 7 years. Students must meet the admission and curriculum requirements of both programs. Requirements of the M.B.A. program are those in effect when an applicant is admitted to the

program. Applicants are expected to have previous professional work experience prior to starting the MBA program.

MBA/J.D. program: A program of joint studies leading to the Master of Business Administration and Juris Doctor degrees is offered under the joint auspices of the Warrington College of Business Administration and the Levin College of Law. Current M.B.A. or J.D. students must declare their intent to apply for the second degree during their first year. Applications are then due according to admission schedules for that year. Both degrees are awarded after a 4-year course of study. Students must take both the LSAT and the GMAT before admission and meet the admission and curriculum requirements of both degrees. Requirements of the M.B.A. program are those in effect when an applicant is admitted to the program. Applicants are expected to have previous professional work experience prior to starting the MBA program.

MB.A./Pharm.D. program in management and pharmacy administration: A program of concurrent studies culminating in both the Master of Business Administration and Doctor of Pharmacy degrees allows students interested in both management and pharmacy administration to obtain the appropriate education in both areas. Candidates must meet the entrance requirements and follow the entrance procedures of both the Warrington College of Business Administration and the College of Pharmacy. The degrees may be granted after 5 years of study. Requirements of the M.B.A. program are those in effect when an applicant is admitted to the program. Applicants are expected to have previous professional work experience prior to starting the MBA program.

MB.A./MLM program in international management: A dual degree program between the University of Florida (UF) and the American Graduate School of International Management (Thunderbird) makes it possible to earn both degrees after 3 years of study. Students start the program at UF and apply to Thunderbird in their first year. Requirements of the M.B.A. program are those in effect when an applicant is admitted to the program. This program requires 2 years of post-undergraduate work experience.

Exchange programs: The M.B.A. program offers second-year students exchange opportunities at numerous international universities. Currently, exchange programs exist with schools in Australia, Belgium, Brazil, Chile, China, Canada, Denmark, England, Finland, France, Germany, Italy, Japan, Korea, Liechtenstein, the Netherlands, Norway, Poland, Spain, Sweden, Taiwan, Thailand, and Turkey. For a complete list of exchange partners, see <http://warrington.ufl.edu/graduate/academics/mba/exchange.asp>.

Master of Construction Management

The Master of Construction Management (M.C.C.) degree is for students pursuing advanced work in construction management, construction techniques, and research problems in the construction field.

General requirements are the same as for the Master of Science in Construction Management degree except that the M.C.M. requires at least 36 graduate credits. A thesis is not required. All candidates are required to pass a comprehensive examination at the completion of course work.

Joint Program: The M.C.M./J.D. program is offered in conjunction with the Levin College of Law.

Master of Education

The Master of Education (M.Ed.) degree program meets the need for professional personnel to serve a variety of functions required in established and emerging educational activities of modern society. A thesis is not required.

All M.Ed. programs require at least 36 credits, with at least half of these credits earned in courses in the College of Education. Up to 6 credit earned from 3000- and 4000-level courses taken outside the academic unit may be counted toward the minimum requires for the degree provided they are part of an approved plan of study. (See also *General Requirements for Master's Degrees*.)

At least 16 credits must be earned while the student is enrolled as a graduate student in courses offered on the Gainesville campus of the University of Florida including registration for at least 6 credits in a single term. This requirement may deviate where distance education programs are considered.

Master of Engineering

Students may choose a thesis or non-thesis option for the Master of Engineering (M.E.) degree. To be eligible for admission to the M.E. program, students must have earned a bachelor's degree from an ABET-accredited college or they must complete articulation work for equivalence. Admission requirements of the Graduate School must be met. The College of Engineering may use the Fundamentals of Engineering examination in lieu of the GRE for admitting students into the non-thesis master's degree programs. Students who do not meet the ABET requirement may be admitted to the Master of Science program (see section on Master of Arts and Master of Science).

The non-thesis M.E. degree is a 30-credit course-work-only degree (practice-oriented project or capstone course may be included in the 30 credits). At least 15 credits must be in the student's major at the 5000 level or higher. For work outside the major, courses numbered 3000 or above (not to exceed 6 credits) may be taken if they are part of an approved plan of study. If a minor is chosen, at least 6 credits are required. Two 6-credit minors may be taken. At the discretion of individual engineering academic units, an oral or written examination may be required.

The thesis option requires 30 credits of course work, including up to 6 credits of 6971 (Research for Master's Thesis). At least 12 credits (not counting 6971) must be in the student's major. Courses in the major must be at the 5000 level or higher. For work outside the major, up to 6 credits of courses numbered 3000 or above may be taken if part of an approved plan of study. If a minor is chosen, at least 6 credits are required. Two 6-credit minors may be taken at the discretion of the academic unit. A comprehensive oral and/or written final examination is required.

An off-campus (distance learning) student who is a candidate for the non-thesis M.E. degree must take half the course work from full-time UF faculty members and must pass a comprehensive written examination administered by a committee from the academic unit. If the student has a minor, the committee must include a member representing that minor.

Master of Fine Arts

The Master of Fine Arts (M.F.A.) degree is offered with majors in art, creative writing, and theatre. Requirements are the same as for the Master of Arts with thesis, except the M.F.A. requires at least 60 credits (54 for creative writing), including 6 to 9 credits in 6971 (Research for Master's Thesis). Students in art and theatre substitute 6973 (Individual Project) creative work in lieu of the written thesis.

Admission: Applicants requesting admission to any of the programs should have an earned baccalaureate degree in the same or a closely related field from an accredited institution. Students must fulfill the admission requirements of their disciplines and the Graduate School's admission criteria. In cases where the undergraduate degree is not in the area chosen for graduate study, the student must demonstrate a level of achievement fully equivalent to the bachelor's degree in the chosen graduate field. A candidate deficient in certain areas must remove the deficiencies by successfully completing appropriate courses.

Art or theatre candidates also must submit a portfolio of the creative work, or must audition, before being accepted into the program. Creative writing candidates must submit 2 short stories, 2 chapters of a novel, or 6 to 10 poems. Three years of work in residence are usually needed to complete degree requirements. If deficiencies must be removed, the residency could be longer. See [the Programs Section of this catalog](#) for Art, English, and Theatre.

Art: The M.F.A. degree with a major in art involves advanced visual research for those who wish to attain a professional level of proficiency in studio work. Specialization is offered in the studio areas of art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. For studio work, the M.F.A. is generally the terminal degree and is often the required credential for teachers of art in colleges and universities.

In addition to the general requirements above, students must take at least 60 credits. Requirements include 42 credits in studio courses (24 in specialization, 12 in electives, and 6 in ART 6973C); 6 credits in art history; 3 credits in teaching art in higher education (required if the student is to accept a teaching assistantship); 3 credits in aesthetics, criticism, or theory; and 6 credits of electives. The College requires the student to leave documentation of thesis project work for purposes of record, exhibition, or instruction.

Creative writing: The M.F.A. in creative writing develops writers of poetry and fiction by a series of workshops and literature seminars. Candidates are expected to produce a thesis (a manuscript of publishable poetry or fiction) at the end of the 3-year program. The degree requires 9 courses (4 workshops, 3 literature courses, and 2 electives), 3 reading tutorials, and a thesis: 48 credits in all. Students take at least 1 workshop each term. All of the literature courses cannot be in the same century. The electives may be literature seminars or workshops; 1 elective may be an approved graduate course outside the Department of English.

Theatre: The M.F.A. degree with a major in theatre is for those interested in production-oriented theatrical careers and teaching. Two specializations are offered: acting and design. The craft skills encompassed in the program are later applied in public and studio productions. The program requires 60 credits, including 18 credits of core classes, 17 credits of specialty training, an internship, and a project in lieu of thesis.

Master of Fire and Emergency Services

The Master of Fire and Emergency Services (M.F.E.S.) is a non-thesis, distance education, advanced degree program with a research report/project requirement offered by the Rinker School of Construction Management. The degree focuses on Emergency Services/Disaster Management (ES/DM) and is designed for individuals who are seeking knowledge in emergency planning, hazard mitigation and preparedness, disaster response and recovery, and homeland security. The goal is to create broad experience that includes the many elements of current cases in ES/DM and emphasizes both the critical thinking and leadership skills necessary to advance in the field. Major research topics include interdisciplinary studies in material sciences, suppression systems, advanced planning and geographic systems, pre- and post-disaster mitigation planning, computer applications, and technological innovations.

Admission: All admission requirements of the Graduate School must be met. Applicants must have a U.S. Bachelor's degree (or equivalent) from an accredited institution. In addition, applicants must have at least five years of meaningful supervisory and management related experience; a cumulative verbal and quantitative GRE score of 300 or higher; a grade point average of 3.0 on a 4.0 scale (preferred); and for international applicants a TOEFL score of 80 or higher on the Internet-Based exam (550 on the Paper-Based) or a 6 or higher on the IELTS.

Work required: At least 33 credits overall (at least 17 credits in the major) with a GPA of 3.0 or higher, a final comprehensive exam, and a research report.

Master of Fisheries and Aquatic Sciences

The non-thesis Master of Fisheries and Aquatic Sciences (M.F.A.S.) program trains students in the technical aspects of fisheries and aquatic sciences emphasizing written and oral communication of scientific information. Requirements are the same as for the Master of Science degree with the non-thesis option, except that the minimum credit requirement is 32 credits, of which at least 26 graduate credits of graded course work (at least 16 in the major), and a technical paper. The final draft of the technical paper must be submitted to all supervisory committee members for approval at least 3 weeks before the scheduled date of the oral and written final examination.

Master of Forest Resources and Conservation

The Master of Forest Resources and Conservation (M.F.R.C.) degree is for additional professional preparation rather than primary research. Requirements are the same as those listed under *General Regulations* for master's degrees, except that the M.F.R.C. requires GRE scores of at least 500 verbal and 500 quantitative.

Work required: At least 32 credits of letter-graded course work with at least 12 credits of graduate course work in the major are required. A thesis is not required, but the student must complete a technical project in an appropriate field. This project may take various forms, such as a literature review, extension publication, video, training manual, or curriculum. The M.F.R.C. requires a final examination covering the candidate's entire field of study. The student must present the work to the supervisory committee in an on-campus public forum before the final examination.

Master of Health Administration

The Master of Health Administration (M.H.A.), offered by the College of Public Health and Health Professions, trains qualified individuals to become managers and leaders of health care organizations. The degree provides a core of business and analytical skills, concepts and knowledge specific to health administration, opportunities for application and synthesis, and exposure to the field of practice. The M.H.A. program admits students only in the fall term and requires full-time study for 2 years, plus a summer internship between the first and second years. The program requires a total of 63 credits.

Master of Health Science

The Master of Health Science (M.H.S.) degree, offered by the College of Public Health and Health Professions, provides exposure to health research and meets the need for leadership personnel in established and emerging health care programs. The College currently offers a program in occupational therapy.

There are three paths to enter occupational therapy and attain the Master of Health Science degree. The 4-term thesis option emphasizes research and is the appropriate route for (but not limited to) students interested in rehabilitation science. The 3-term non-thesis option emphasizes research and advanced theories related to the practice of occupational therapy. Both options prepare leaders in the profession and require 36 credits. The third option, the distance learning program, is for working professionals to increase knowledge in emerging practice areas and leadership. See the *General Regulations* for requirements for all master's degrees for further requirements.

Master of Interior Design

The Master of Interior Design (M.I.D.) allows students to direct their attention to a variety of topics including design pedagogy and processes; sustainable, safe, and secure environments; creative performance and innovation; and built heritage conservation.

Work required includes at least 36 credits (no more than 6 thesis credits). Required preparatory courses are in addition to the minimum credits for graduate work.

Master of International Business

The Master of International Business (M.I.B.) is a non-thesis interdisciplinary graduate business program designed to enhance a student's knowledge and understanding of global business trends and problems.

Admission: All admission requirements of the Graduate School must be met. Applicants must have a U.S. Bachelor's degree (or equivalent) from an accredited institution, with a major or minor in Business. In addition, applicants must complete a statement of purpose and submit two letters of recommendation as well as a resume and all official transcripts and admissions scores.

Work required: Students must complete the 30-credit curriculum, which consists of 14 core credits and 16 elective credits, with a grade point average (major and overall) of 3.0 or higher. The curriculum includes a mandatory global immersion experience and a non-thesis capstone project.

Master of International Construction Management

The Master of International Construction Management (M.I.C.M.) is a non-thesis, distance education, advanced degree program with a research report/project requirement offered by the Rinker School of Construction Management. The M.I.C.M. allows students with computer and Internet access to attend classes at any time, any place and to interact with faculty and classmates via the Internet.

Admissions: Applicants for admission must have:

- An undergraduate degree,
- At least 5 years of meaningful, supervisory-level construction management experience,
- Acceptable GRE scores
- A grade point average of 3.00 on a 4.0 scale,
- If an international student, an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: paper=550, internet=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program, and
- Sponsorship by the employer.

Work required: The M.I.C.M. prepares students to assume upper-level construction management responsibilities in a multinational construction company. Specializations include sustainable construction, information systems, construction safety, and human resource management. In addition to 6 research-oriented graduate credits, the student selects 1 or 2 specializations and then takes the rest of the required 33 credits from the remaining courses and special electives. Students must pass a comprehensive oral and/or written examination on completing course work and the master's research report/project.

Master of Landscape Architecture

The degree of Master of Landscape Architecture (M.L.A.) is the advanced professional degree for graduates with baccalaureate credentials in landscape architecture and is a first professional degree for the graduate from a non-landscape architectural background. Candidates are admitted from related and unrelated fields and backgrounds. An advanced professional life experience track is available for eligible candidates.

Work required: Candidates must complete at least 52 credits, including no more than 6 credits of thesis or project. For students without baccalaureate credentials in landscape architecture, required preparatory courses are in addition to the minimum credits for graduate work. For advanced professional life experience candidates, the minimum requirement is 30 credits, including thesis. At least 50% of all course work must be graduate courses in landscape architecture. Some areas allow a project (requiring 6 credits) in lieu of thesis, with permission of the academic unit's Graduate Faculty.

Master of Latin

The Classics Department offers the non-thesis Master of Latin (M.L.) degree, a 30-credit program mainly for currently employed and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of Classics, and enhance their professional qualifications. This degree can be attained by students in residence for fall/spring terms or by a program of summer course work at UF and by directed independent study and/or distance learning courses during the regular academic year.

Students registering during summer terms can complete the degree in 4 years by earning 6 graduate credits each summer (total = 24), plus two 3-credit independent study or distance learning courses during the intervening academic years. Those who already have some graduate credit in Latin, or who can take more credits during the year, can complete the degree more quickly.

Unlike the M.A. degree in Latin, the Master of Latin degree has no thesis requirement, does not prepare students for Ph.D. level studies, and is aimed specifically at currently employed and certified Latin teachers.

Admission: Contact the Department's Graduate Coordinator or Distance Learning Coordinator before applying. Requirements for the admissions process are:

- Apply to UF's Graduate School,
- Acceptable GRE scores,
- Three letters of recommendation, and
- Transcripts recording undergraduate courses (and graduate courses, if any; students must demonstrate the ability to take Latin courses at the graduate level).

Degree requirements include at least 30 credits as a UF graduate student. Of these, no more than 8 credits (grade of A, A-, B+, or B) may be transferred from institutions approved for this purpose by the Dean of the Graduate School. At least half of the 30 credits required should be from Latin language and literature courses (LAT or LNW courses at the 5000 level or above). UF graduate-level courses taken before admission to Graduate School (e.g., in the Latin Summer Institutes) may be applied to the 30 credits if approved by the Graduate School. The Department will work closely with individual students to determine how many previous graduate credits at UF or other institutions may be applied to this program.

The student may elect minor work in other academic units (e.g., history, philosophy, art history, religion) although there is no requirement to do so. If a minor is chosen, at least 6 credits are required in the minor field. Two 6-credit minors may be taken with departmental permission. A GPA of 3.0 is required for minor credit and for all work counted toward the degree. All work in a minor must be approved by the supervisory committee.

Examination: The supervisory committee administers a final oral and written comprehensive examination at completion of the course work. This examination includes (1) an oral component on Roman literary tradition and (2) a written component covering (a) Latin sight translation and grammar, (b) Roman history and civilization, and if applicable (c) the minor, or minors. As preparation for this examination, the student should read the required reading list of secondary works in English.

Language requirement: The Department for this degree plan does not require, but strongly recommends, at least a reading knowledge of one (or more) of the following: German, French, Italian, or Spanish. Such study will facilitate reading important secondary works not translated into English, enhance travel, and perhaps lead to teaching opportunities in the chosen language at the secondary school level.

Master of Laws in Comparative Law

The Master of Laws in Comparative Law (LL.M.Comp.Law) degree is for graduates of foreign law schools who want to enhance their understanding of the American legal system and the English common law system. The program starts with Introduction to American Law, a 4-credit summer course that gives students a foundation in the American legal process. It also helps students acclimate to the College of Law and the University community before starting the academic year. During fall and spring terms, and with the director's approval, students choose their remaining 22 credits from more than 100 Juris Doctor and LL.M. in Taxation courses and seminars. For admission information consult the College of Law Catalog or write to the Comparative Law Office, P.O. Box 117643, University of Florida, Gainesville FL 32611-7643.

Master of Laws in Environmental and Land Use Law

The Master of Laws in Environmental and Land Use Law degree is a one-year post-J.D. degree providing an opportunity for experienced attorneys, as well as recent law school graduates, to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

For more information about the Environmental and Land Use Law Program, contact
University of Florida Levin College of Law, Environmental and Land Use Law Office
P.O. Box 117625

University of Florida
Gainesville, FL 32611-7625

Phone (352-273-0777) or
E-mail to clulp@law.ufl.edu.

Master of Laws in International Taxation

The Master of Laws in International Taxation (LL.M.I.T.) degree program offers advanced instruction for law graduates who plan to specialize in international taxation, in the practice of law. Degree candidates must complete 26 credits. Of these 26 credits, 22 must be graduate-level tax courses, and 13 must be graduate-level international tax courses, including a research and writing course.

Master of Laws in Taxation

The Master of Laws in Taxation (LL.M.T.) degree program offers advanced instruction for law graduates who plan to specialize in federal taxation and particularly federal income taxation, in the practice of law. Degree candidates must complete 26 credits. Of these 26 credits, 22 must be graduate-level tax courses, including a research and writing course.

Master of Music

The Master of Music (M.M.) degree is offered in music or music education. The music program offers the following concentrations: choral conducting, composition, electronic music, ethnomusicology, instrumental conducting, music education, music history and literature, music theory, performance, and sacred music. The M.M. degree prepares students for careers as teachers in studios, schools, and universities; performers; music historians; music critics; church musicians; composers; conductors; and accompanists.

Admission: Applicants should have a baccalaureate degree in music or a closely related area from an accredited institution. Students whose undergraduate degree is in another discipline must demonstrate a level of achievement fully acceptable for master's level work in this discipline. Applicants normally complete at least 4 semesters of music theory, two semesters of music history, and 3-5 semester of performance study. A candidate deficient in certain undergraduate areas must remove the deficiencies by successfully completing appropriate courses. If remedial work is needed, the residency (usually 4 terms of full-time study) may be longer. An audition or portfolio review is required for all students.

Work required includes at least 32 credits of course work (not counting prerequisite or deficiency courses) incorporating a core of 9 credits. The core in all emphases includes MUS 6716 (MUE 6785 in the music education program), MUT 6629, and one MUH or MUL graduate course. A thesis or creative project in lieu of thesis is required.

The College of the Arts reserves the right to retain student work for purposes of record, exhibition, or instruction. For more information, see [the Programs Section of this catalog](#).

Master of Occupational Therapy

The non-thesis Master of Occupational Therapy (M.O.T.) degree program is for students who do not have a degree in occupational therapy, and who want to enter the field of occupational therapy. The program gives students a holistic perspective including an understanding of the philosophical and theoretical bases for practice in the current health care environment. The M.O.T. program provides a strong background in theory, assessment, and therapeutic intervention.

This 5-term program of graduate study consists of 3 terms of classroom course work and 2 terms (24 weeks) of internship. Students enter the program after completing a bachelor's degree. The M.O.T. degree is awarded after completing 58 credits. Students must receive at least a B (3.00 truncated) on all course work and satisfactory evaluations on all clinical fieldwork.

Master of Public Health

The Master of Public Health (M.P.H.) is a non-thesis degree program that prepares students to become effective public health practitioners, scientists, and educators. Graduates can contribute to the health of the local, national, and international communities through advancing public health knowledge and by designing, implementing, and evaluating programs and policies that prevent disease and promote health. Students have the opportunity to develop skills in 1 of 6 public health concentration areas:

- Biostatistics: Applying quantitative and analytical methods in public health research and evaluation
- Environmental health: Assessing risk levels and protecting the public from environmental threats to health
- Epidemiology: Studying the distribution and determinants of health in populations and communities
- Public health management and policy: Providing leadership in public health administration and developing policies to promote the public's health
- Public health practice: Developing breadth in the field of public health by studying 2 or more of the other concentration areas
- Social and behavioral sciences: Exploring the unique issues faced by diverse groups and populations and acquiring skills to achieve social and behavioral change.

The M.P.H. degree program is a 48-credit program for individuals with bachelor's degrees. Those with prior terminal degrees in health-related fields may take the M.P.H. in an accelerated 42-credit format. Several collaborative programs with professional and graduate degrees are available, including D.V.M./M.P.H., J.D./M.P.H., and Pharm.D./M.P.H. A combined degree program for seniors and a 15-credit certificate program also are offered. For additional information, visit <http://www.mph.ufl.edu>.

Admission: Applicants with any undergraduate major are considered for the program as long as they meet the Graduate School admission requirements and their interests match the program's philosophy and curriculum.

Work required: In the 48-credit program, students take 16 credits of core public health course work and 5-8 credits of internship. Internships are designed to promote competency in the concentration area and contribute to the student's career goals. The remaining 24-27 credits include required and elective course work in the concentration area chosen by the student. Specific course requirements vary by concentration area.

Students who have a relevant terminal degree in a health-related field may be eligible for the 42-credit accelerated program, pending M.P.H. admissions committee approval. This program requires completion of 16 credits of core public health course work, 21 credits of concentration course work, and a 5-credit internship.

Master of Science in Architectural Studies

Admission: The Master of Science in Architectural Studies (M.S.A.S.) is a nonprofessional, research degree for students with undergraduate degrees in any field of study who wish to undertake advanced studies and research in architectural specialties. Specialization is offered in environmental technology, architectural preservation, urban design, history, and theory.

Work required includes at least 32 credits of course work incorporating up to 6 credits of ARC 6971 (Research for Master's Thesis). Most course work should be in the School of Architecture, but multidisciplinary electives in planning, history, law, engineering, art history, and real estate are encouraged. Students also may enroll in one of the School's off-campus programs in Nantucket, in the Caribbean, in Hong Kong, or in Vicenza. A thesis is required.

Requirements for level and distribution of credits, supervisory committee, and final examination are the same as for the Master of Arts and Master of Science with thesis.

Master of Science in Entrepreneurship

The Master of Science in Entrepreneurship (M.S.E.) program is a one-year, 36-credit, campus-based program designed for young and aspiring entrepreneurs and change-makers. Offered to both business and non-business majors alike, the program is a combination of classroom delivery and experiential learning activities with a focus on opportunity assessment, feasibility analysis, lean entrepreneurial concept testing, business plan development, entrepreneurial leadership, and the sourcing of capital. Students are exposed to cutting edge entrepreneurial theory, which they apply immediately by consulting for small business, commercializing UF technology, and creating their own businesses. The M.S.E. program is a non-thesis degree requiring a final exam in lieu of thesis.

Admission: All admission requirements of the Graduate School must be met. In addition, applicants must complete a statement of purpose, submit two letters of recommendation as well as a resume and all official transcripts and admissions scores, and conduct a program interview. Either a GMAT or GRE score will be accepted.

Work required: In order to graduate from the program students must:

- Complete 36 credits with a grade of "C" or better;
- Maintain an overall Graduate GPA of 3.0 or higher;
- Maintain a Major GPA of 3.0 or higher;
- Complete the program final exam: a portfolio of entrepreneurial experiences completed throughout the program demonstrating mastery of entrepreneurial competencies;
- Fulfill all program requirements.

Master of Science in Information Systems and Operations Management

The Master of Science in Information Systems and Operations Management (M.S.ISOM) program provides computing, analytical, and application skills to be used in a business setting. The primary areas of emphasis in the program are business intelligence and analytics, information technology, and supply chain management. Requirements span traditional academic disciplines to produce a multi-discipline focus. The M.S.ISOM program is a non-thesis degree program.

All admission requirements of the Graduate School must be met. There are no prerequisites for the program. However, students without a business background will need additional core business coursework.

Preparedness for graduation is based on:

- Completing a minimum of 36 credits (including 18 in the major) and all course requirements for the designated track. Letter grades of C-, D+, D, D- or E are not considered passing at the graduate level and therefore any required course for which such grades have been assigned must be repeated.
- Being registered for at least two credits in the semester in which the student intends to graduate.
- Completing all degree requirements, including a minimum grade point average of B (3.00 truncated) in the major (i.e. only courses offered under the Department section of the graduate catalog) and in all work attempted in the graduate program, including a minor where appropriate
- Clearing all incompletes or other unresolved grades by the midpoint deadline published on the Graduate School's [Critical Dates](#) web page.
- Filing a degree application with the Office of the University Registrar by the deadline published on the Graduate School's [Critical Dates](#) web page. The degree application can be accessed on ISIS under "My Record." Check the box "Master of Science" on the application.

Master of Science in Nursing

The master's degree prepares nurses for advanced practice, clinical nurse specialist, or to be a clinical nurse leader. The graduate nursing core includes nursing theory, research, statistics, health policy, ethics, finance, and health promotion. The advanced practice core includes specific theory and clinical courses with relevant clinical experiences.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal.

Additional offerings include

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader

Graduates are eligible for Florida licensure and national certification. To be considered for the M.S.N. program, students must meet the following minimum requirements:

- Bachelor of Science in Nursing degree with an upper-division grade point average of 3.0 or higher from a CCNE or NLN AC accredited program
- A score of 500 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination (GRE) General Test. In the new version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section. Analytical writing section is optional.
- Eligibility for licensure to practice as a registered nurse in the state of Florida

For application materials: http://www.nursing.ufl.edu/prospective/prospective_msn_application_process.shtml

Master of Statistics

The Master of Statistics (M.Stat.) degree requires at least 36 credits including at least 30 graduate credits in the major. Courses are selected in consultation with the supervisory committee chair and approved by the supervisory committee. Students must pass two examinations: (1) a first-year examination, given by a committee designated for the purpose, on material covered in statistics courses for first-year graduate students and (2) a final oral examination consisting of a presentation by the student on a statistical topic not covered in depth in the regular course work. The student should consult with his/her adviser to choose a topic, and present a written report on that topic to the supervisory committee at least 1 week before the examination date. A typical report is 8 to 10 pages. During and after the presentation, the student's committee may ask questions related to the topic of the presentation and related to other material covered in the student's program of study.

Master of Sustainable Development Practice

The Master of Sustainable Development Practice (MDP) at the University of Florida is focused on training development practitioners capable of addressing development challenges in creative and dynamic ways. The UF MDP bridges the academic and development pillars of natural sciences, social sciences, health sciences and integrated management skills into a vigorous and innovative program curriculum.

The MDP Degree requires 45 credits of course work, including 33 core credits and 12 electives, the latter through which a student focuses on a specialization. The MDP Program is a non-thesis degree, wherein each student must successfully complete a set of requirements. These include, among others, a summer field practicum, the development of a poster presented in a public poster session, a final practicum report approved by their committee, and a public presentation and private defense with committee members of the final report. All students will be expected to meet defined learning outcome objectives, integrating knowledge, skills and desired professional behavior.

All admission and graduation requirements of the Graduate School must be met. Students are required to develop a study plan approved by the MDP program Graduate Coordinator. Please

visit the MDP Program website for additional information on the MDP degree and curriculum <http://www.africa.ufl.edu/mdp/index.html>.

Requirements for Doctoral Degrees

Doctor of Philosophy

The Doctor of Philosophy (Ph.D.) is a research degree and is granted on evidence of general proficiency, distinctive attainment in a special field, and particularly on ability for independent investigation as demonstrated in a dissertation presenting original research with a high degree of literary skill. Consequently, doctoral programs are more flexible and varied than those leading to other graduate degrees. The Graduate Council does not specify what courses are required for the Doctor of Philosophy degree. General requirements: the program should be unified in relation to a clear objective, the program should have the considered approval of the student's entire supervisory committee, and the program should include an appropriate number of credits of doctoral research.

Course Requirements

Course requirements for doctoral degrees vary from field to field and from student to student. In all fields, the Ph.D. degree requires at least 90 credits beyond the bachelor's degree. All master's degrees counted in the minimum must be earned in the last 7 years.

Transfer of credit: No more than 30 credits of a master's degree from another institution will be transferred to a doctoral program. If a student holds a master's degree in a discipline different from the doctoral program, the master's work will not be counted in the program unless the academic unit petitions the Dean of the Graduate School. All courses beyond the master's degree taken at another university to be applied to the Ph.D. degree must be taken at an institution offering the doctoral degree and must be approved for graduate credit by the Graduate School of the University of Florida. All courses to be transferred must be graduate-level, letter-graded with a grade of B or better and must be demonstrated to relate directly to the degree being sought. All such transfer requests must be made by petition of the supervisory committee no later than the third term of Ph.D. study. The total number of credits (including 30 for a prior master's degree) that may be transferred cannot exceed 45, and in all cases the student must complete the qualifying examination at the University of Florida. In addition, any prior graduate credits earned at UF (e.g., a master's degree in the same or a different discipline) may be transferred into the doctoral program at the discretion of the supervisory committee and by petition to the Graduate School. The petition must show how the prior course work is relevant to the current degree.

Major: A Ph.D. student does the major work in an academic unit specifically approved for offering doctoral courses and supervising dissertations. See Graduate Programs. At least a B (3.00 truncated) is needed for courses included in the major.

Minor: Minor work must be in an academic unit other than the major. If an academic unit contributes more than one course (as specified in the curriculum inventory and/or the Graduate Catalog) to the major, the student is not eligible to earn a minor from the contributing academic unit. A 3.00 (truncated) GPA is required for minor credit.

With the supervisory committee's approval, the student may choose one or more minor fields. If one minor is chosen, the supervisory committee member representing the minor suggests 12 to 24 credits of courses numbered 5000 or higher as preparation for a qualifying examination. If two minors are chosen, each must include at least 8 credits. Competency in the minor is demonstrated by written examination by the minor academic unit, or by the oral qualifying examination.

Leave of Absence

A doctoral student who ceases to be registered at UF for more than 1 term needs prior written approval from the supervisory committee chair for a leave of absence for a stated period of time. This approved leave is kept on file in the student's departmental record. It does not need Graduate School approval. The student must reapply for admission on returning. See *Readmission and Catalog Year*.

Supervisory Committee

Supervisory committees are nominated by the academic unit chair, approved by the dean of the college concerned, and appointed by the Dean of the Graduate School. The committee should be appointed as soon as possible after the student starts doctoral work and no later than the end of the second term of equivalent full-time study. The Dean of the Graduate School is an ex-officio member of all supervisory committees.

Duties and responsibilities of the supervisory committee:

- Inform the student of all regulations governing the degree sought. This does not absolve the student from responsibility for being informed about these regulations. See *General Regulations*.
- Meet immediately after appointment to review the student's qualifications and discuss and approve a program of study.
- Meet to discuss and approve the proposed dissertation project and the plans for carrying it out.
- Give the student a yearly evaluation letter in addition to S/U grades earned for research courses 7979 and 7980. The chair writes this letter after consulting with the supervisory committee.
- Conduct the qualifying examination (or participate in it, if administered by the academic unit).
- Meet when at least half the work on the dissertation is complete, to review procedure, progress, and expected results; and to make suggestions for completion.
- Meet with the student when the dissertation is completed and conduct the final oral examination to assure that the dissertation is a piece of original research and a contribution to knowledge. The supervisory committee chair or co-chair must be present with the candidate for the examination. All other committee members may attend remotely. Only the actual supervisory committee may sign the ETD Signature Page, and they must approve the dissertation unanimously. See *Examinations* in *General Regulations*.

Membership: The supervisory committee for a doctoral candidate comprises at least four members selected from the Graduate Faculty. At least two members, including the chair, must be from the academic unit recommending the degree. At least one member serves as external member and should be from a different educational discipline, with no ties to the home academic unit. One regular member may be from the home academic unit or another unit.

If a minor is chosen, the supervisory committee includes at least one Graduate Faculty member representing the student's minor. If the student elects more than one minor, each minor area must be represented on the supervisory committee. Therefore, committees for students with two minors must have a minimum of five members.

Special appointments: People without Graduate Faculty status may be made official members of a student's supervisory committee through the special appointment process. Appropriate candidates for special appointments include

- Individuals from outside UF with specific expertise who contribute to a graduate student's program of study
- Tenure-track faculty not yet qualified for Graduate Faculty status
- Non-tenure-track faculty or staff at UF who do not qualify for Graduate Faculty status

Limitations for special appointments:

- They do not hold Graduate Faculty appointments
- They have a special appointment that is specific only to an individual student's committee

- They may not serve as a supervisory committee chair, co-chair, external member, or minor representative.

The student's supervisory committee chair requests the special appointment, briefly explaining what the special appointment contributes to the supervisory committee. A special appointment is made for a specific supervisory committee. If a student changes to a new degree or major and the committee chair wishes to include the special member on the new supervisory committee, another request must be submitted to the Graduate School for the new committee.

External member:

- Represents the interests of the Graduate School and UF
- Knows Graduate Council policies
- Serves as an advocate for the student at doctoral committee activities.

If the academic unit's committee activity conflicts with broader University policies or practices, the external member is responsible for bringing such conflicts to the attention of the appropriate governing body. Therefore, the external member is prohibited from holding any official interest in the doctoral candidate's major academic unit. Faculty holding joint, affiliate, courtesy, or adjunct appointments in the degree-granting academic unit cannot be external members on a student's committee.

Minor member: The Graduate Faculty member who represents a minor on a student's committee may be appointed as the external member if he/she does not have a courtesy graduate appointment in the student's major academic unit.

Co chair: To substitute for the chair of the committee at any examinations, the co chair must be in the same academic unit as the candidate.

Retired faculty: Graduate Faculty members who retire may continue their service on supervisory committees for 1 year. With approval of the academic unit, retired faculty may continue serving on existing or new committees beyond this period.

Substituting members at qualifying and final examination: If a supervisory committee member cannot be present at the student's final defense, a Graduate Faculty member in the same academic area may substitute for the absent committee member. The substitute should sign the Final Examination form on the left side, in the space provided for committee members, noting the name of the absent member.

The chair of the student's major academic unit also must indicate the reason for the absence and state that the absent member agreed to this substitution at the final examination.

The substitute should not sign the ETD signature page. The original committee member must sign.

The student and chair or co chair should be present for the oral defense; however, other committee members may elect to attend remotely, with approval by the other committee members, using modern communication technology to be present rather than being physically present at the defense.

No substitutes are allowed for the chair or external member of the committee. Changes to the supervisory committee may be entered online in GIMS before the qualifying examination.

The Graduate Council wants each supervisory committee to function as a University committee (not a departmental committee), applying University-wide standards to the various doctoral degrees. For complete information on the appointment process, consult the Graduate Council Policy Manual, <http://gradschool.ufl.edu/archived-files/policy-manual-archived-copy.html> (Chapter VIII).

Language Requirement

Any foreign language requirement for the Ph.D. is established by the major academic unit with approval of the college. The student should check with the graduate coordinator of the appropriate academic unit for specific information. The foreign language departments offer classes for graduate students starting to study a language. See the current *Schedule of Courses* for available languages. All candidates must be able to use the English language correctly and effectively, as judged by the supervisory committee.

Campus Residence Requirement

Beyond the first 30 credits counted toward the doctoral degree, students must complete 30 credits enrolled at the University of Florida campus or at an approved branch station of the University of Florida Agricultural Experiment Stations or the Graduate Engineering and Research Center. An academic unit or college may establish and monitor its own more-stringent requirement as desired.

Qualifying Examination

All Ph.D. candidates must take the qualifying examination. It may be taken during the third term of graduate study beyond the bachelor's degree.

The student must be registered in the term the qualifying examination is given.

The examination, prepared and evaluated by the full supervisory committee or the major and minor academic units, is both written and oral and covers the major and minor subjects. Except for allowed substitutions, all members of the supervisory committee must attend the oral part. The student and chair or co-chair must be in the same physical location. With approval of the entire committee, other committee members may attend remotely using modern technology. At this time the supervisory committee is responsible for deciding whether the student is qualified to continue work toward a Ph.D. degree.

If a student fails the qualifying examination, the Graduate School should be notified. A re-examination may be requested, but it must be recommended by the supervisory committee. At least one term of additional preparation is needed before re-examination.

Time lapse: Between the oral part of the qualifying examination and the date of the degree there must be at least 2 terms. The term the qualifying examination is passed is counted, if the examination occurs before the midpoint of the term.

Registration in Research Courses

Advanced Research (7979) is open to doctoral students not yet admitted to candidacy (classified as 7 and 8). Students enrolled in 7979 during the term they qualify for candidacy will stay in this registration unless the academic unit elects to change their enrollment to Research for Doctoral Dissertation (7980), which is reserved for doctoral students admitted to candidacy (classified as 9).

Admission to Candidacy

A graduate student becomes a candidate for the Ph.D. degree when the student is granted formal admission to candidacy. Such admission requires the approval of the student's supervisory committee, the academic unit chair, the college dean, and the Dean of the Graduate School. The approval must be based on:

- The academic record of the student

- The supervisory committee's opinion on overall fitness for candidacy
- An approved dissertation topic
- A qualifying examination as described above

The student should apply for admission to candidacy as soon as the qualifying examination is passed and a dissertation topic is approved by the student's supervisory committee.

Dissertation

Each doctoral candidate must prepare and present a dissertation that shows independent investigation and that is acceptable in form and content to the supervisory committee and to the Graduate School. The work must be of publishable quality and must be in a form suitable for publication, using the Graduate School's format requirements. **The student and supervisory committee are responsible for level of quality and scholarship.** Graduate Council requires the Graduate School Editorial Office, as agents of the Dean of the Graduate School, to review theses and dissertations for acceptable format, and to make recommendations as needed.

Doctoral dissertation requirements: Before presentation to the Editorial Office, the dissertation should be virtually complete and completely formatted (not in a draft format). Students must be completely familiar with the format requirements of the Graduate School and should work with one of the consultants in the Application Support Center, to troubleshoot the dissertation, before attempting to make a first submission to the editors in the Graduate School Editorial Office. Students who fail to first meet with one of the ASC Lab Consultants often find their document rejected upon First Submission to the Editorial Office, for not meeting the minimum submission standards, required for an editorial review.

Format requirements:

graduateschool.ufl.edu/files/etd-guide.pdf

Checklist:

<http://graduateschool.ufl.edu/files/checklist-dissertation.pdf>

Graduate School Editorial Office:

<http://graduateschool.ufl.edu/graduation/thesis-and-dissertation>

Application Support Center:

<https://asc.helpdesk.ufl.edu/>

Gatorlink e-mail requirement: UF requires all students to maintain access to their Gatorlink e-mail.

Dissertation First Submission: Before presentation to the Editorial Office, the thesis should be virtually complete and completely formatted (not in a draft format). Students must be completely familiar with the format requirements of the Graduate School and should work with one of the consultants in the Application Support Center, to troubleshoot the dissertation, before attempting to make submission to the editors in the Graduate School Editorial Office. Students who fail to first meet with one of the Lab Consultants often find their document rejected upon First Submission to the Editorial Office, for not meeting the minimum submission standards required for an editorial review.

Should the document pass the submission requirements and appear acceptable for review, the Editorial Office will e-mail the student, using their Gatorlink email address, confirming the submission, and responding with an acceptance e-mail. Should the document not pass first submission requirements, a denial e-mail will instead be sent, advising the student of their options at that time. This notice must be addressed immediately. Once a successful first submission has been achieved and the document has been reviewed by one of the Graduate School's editors, another e-mail is sent, providing editorial feedback to the student and committee chair. The student is responsible for retrieving the dissertation, review comments, and resolving any deficits related to the format requirements. Students should promptly make all required changes.

Uploading and submitting the final pdf for Editorial Final Submission: After changes have been made to the satisfaction of the supervisory committee, the Electronic Thesis or Dissertation (ETD) Signature Page is submitted electronically to the Graduate School Editorial Office, via the Graduate Information Management System (GIMS). This must be completed by the Editorial Office's Final Submission Deadline. Once submitted, the student should upload and submit the final pdf of the electronic thesis, using the Editorial Document Management (EDM) system. The document will undergo a final review by one of the Graduate School Representatives. The Editorial Office ensures that the format is acceptable, that all indicated changes were made, and that all of the hyperlinks work within the document. The Graduate School Representative then e-mails the student regarding the status of the ETD. If accepted, no further changes are allowed. If changes are still required, the student should resubmit the corrected document as soon as possible. All documents must be confirmed with final approval emails from the Graduate School Editorial Office by the Final Clearance deadline. This deadline is firm, and no exceptions can be granted. When all changes have been made and approved, the Editorial Office will email the Committee Chair and the student with a message, indicating the student has achieved Editorial Final Clearance with the Graduate School's Editorial Office.

Editorial Final Clearance: Among other requirements (see Checklist above), the final thesis must be confirmed as accepted, by email, by 5:00 p.m. on this deadline. This deadline only applies, if all other posted deadlines for the term have been appropriately met. Because there are hundreds of students in this process, most students complete all requirements well in advance.

It is the responsibility of the student to ensure they have achieved Final Clearance status by the Final Clearance Deadline for the term in which they intend to graduate. This can be confirmed via GIMS.

Publication of dissertation: All dissertation students must pay a \$25 microfilm fee for traditional publication and microfilming fees through UMI/Proquest, even if they elect not to send the dissertation to UMI for publication. This charge will appear as a hold on the student record in ISIS after making first submission to the Graduate School Editorial Office. All dissertation students also must sign a microfilm agreement form. This form is provided to the student at the defense. This form is signed by the student; it is delivered to the Graduate School Editorial Office by the Final Submission Deadline for the intended term of degree award. Students who began their graduate program in Fall 2001 or later must submit their final dissertations electronically (not on paper).

Copyright: The student is automatically the copyright holder, by virtue of having written the dissertation. A copyright page should be included immediately after the title page to indicate this. The Editorial Office does not accept copyright registration requests. Registering copyright is not required and does not benefit most students. Any students who wish to register a copyright can do so themselves (<http://www.copyright.gov>).

Dissertation language: Dissertations must be written in English, except for students pursuing degrees in Romance or Germanic languages and literatures. Students in these disciplines, with the approval of their supervisory committees, may write in the topic language. A foreign language dissertation should have the Acknowledgments, Abstract, and Biographical Sketch written in English. All page titles before Chapter 1 should also be in English.

Journal articles: Dissertations may include journal articles as chapters, if all copyright considerations are addressed appropriately. In such cases, Chapter 1 should be a general introduction, tying everything together as a unified whole. The last chapter should be general conclusions, again tying everything together into a unified whole. Any chapter representing a journal article needs a footnote at the bottom of the first page of the chapter: "Reprinted with permission from . . ." giving the source, just as it appears in the list of references. The dissertation should have only 1 abstract and 1 reference list.

Guidelines for Restriction on Release of Dissertations

Research performed at the University can effectively contribute to the education of our students and to the body of knowledge that is our heritage only if the results of the research are published freely and openly. Conflicts can develop when it is in the interests of sponsors of university research to restrict such publication. When such conflicts arise, the University must decide what compromises it is willing to accept, taking into account the relevant circumstances.

Final Examination

While submitting the dissertation and completing all other work prescribed for the degree, the candidate is given a final examination, oral or written or both, by the supervisory committee, on campus. The candidate and the supervisory committee chair or co chair must be physically present together at the same location. With approval of the entire committee, other members may attend the defense remotely, using modern communication technology. The defense should be no more than 6 months before degree award. All forms should be signed at the defense: the candidate and the supervisory committee chair sign the UF Publishing Agreement Form, while the entire supervisory committee signs the ETD Signature Page and the Final Examination Report. If dissertation changes are requested, the supervisory committee chair or his or her designee may hold the ETD Signature Page until all are satisfied with the dissertation. However, this form must be submitted electronically, via GIMS, by the [Final Submission Deadline](#) for the Graduate School Editorial Office, during the term of intended degree award.

Satisfactory performance on this examination and adherence to all Graduate School regulations outlined above complete the requirements for the degree.

Time limitation: All work for the doctorate must be completed within 5 calendar years after the qualifying examination, or this examination must be repeated.

Doctor of Audiology

The College Public Health and Health Professions offers a program leading to the degree of Doctor of Audiology. The Au.D. degree is awarded after a 4-year program of graduate study. Foreign languages are not required. The program leading to the Au.D. degree is administered by the Department of Speech, Language and Hearing Sciences, the college, and the Graduate School.

Admission: To be considered for the Au.D. program, students must meet the following minimum requirements:

- A 3.00 junior-senior undergraduate grade point average and a program specific acceptable score on the GRE General Test,
- Evidence of good potential for academic success in at least three letters of recommendation, and
- Evidence of acceptable skills in written expression through a personal statement describing the motivation and skills applicable to graduate study and the profession of audiology.

Course requirements include 110 credits for students entering the program with a bachelor's degree awarded by an accredited institution consisting of at least 70 credits of didactic instruction, 30 credits of applied practicum, and 3 credits of audiology research.

A 70-credit program leading to the Au.D. is offered for applicants holding an earned master's degree in audiology from an accredited institution.

A 45-credit program leading to the Au.D. is offered for applicants holding an earned master's from an accredited institution, certification and/or licensure in audiology, and at least 3 years of full-time experience in audiology.

Comprehensive examination, required for all Au.D. candidates, may be taken during the eighth term of study beyond the bachelor's degree. Both written and oral, this examination is prepared and evaluated by the supervisory committee, which is responsible for determining whether the student is qualified to continue work toward the degree by completing the clinical residency.

Doctor of Education

The Doctor of Education (Ed.D.) degree offers advanced professional training and academic preparation for the highest levels of educational practice. Programs are available in the School of Teaching and Learning, the School of Special Education, School Psychology, and Early Childhood Studies, and the School of Human Development and Organizational Studies in Education.

A minimum of 90 credits beyond the bachelor's degree (master's degrees included must be in the last 7 years) is required. Course requirements vary with the academic unit and with the student's plan for research and/or professional pursuit. With the approval of the supervisory committee, the student may choose one or more minor fields of study. The Ed.D. requires a qualifying examination and a dissertation.

See Requirements for the Ph.D. for information on transfer of credit, minors, leave of absence, supervisory committee, language requirement, campus residence requirement, qualifying and final examinations, admission to candidacy, dissertation, and certification. These statements apply to both the Ph.D. and Ed.D. degrees.

Doctor of Nursing Practice

The College of Nursing offers a program leading to the degree of Doctor of Nursing Practice (D.N.P.). The program prepares advanced practice nurses with the knowledge, skills, and abilities needed in today's complex health care environment and produces advanced practice nurses with educational background comparable to health care practitioners in other fields.

Admission

To be considered for the D.N.P. program, students must meet the following minimum requirements:

- A bachelor of science in nursing degree for the BSN/DNP program or a master's degree in nursing for the post master's DNP program from a CCNE or NLN AC accredited program.
- A GPA of at least 3.0 on a 4.0 scale.
- A score of 500 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination (GRE) General Test. In the new version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section. Analytical writing section is optional.
- Current licensure (or eligibility) in the state of Florida

Program of study

The D.N.P. program consists of 93 credits that can be completed in 8 semesters of full-time study or 14 semesters of part-time study. Students who already have an M.S.N. degree are able to satisfy the requirements of the D.N.P. curriculum upon completion of 48 credits.

Doctor of Plant Medicine

The College of Agricultural and Life Sciences offers an interdisciplinary program leading to the degree of Doctor of Plant Medicine (D.P.M.). The D.P.M. degree is awarded after a 3- to 4-year program of graduate study. Foreign languages are not required. The program leading to the D.P. M. degree is administered by the Entomology and Nematology Department, College of Agricultural and Life Sciences, and the Graduate School.

Admission: Students must meet the following minimum requirements:

- B.S. or B.A. degree, preferably in biological, agricultural, or health science.
- A 3.00 grade point average in upper-division courses.
- A minimum score of 153 in the verbal section and 144 in the quantitative section of the Graduate Record Examination (GRE).
- A program specific acceptable score on the GRE General Test.
- Applicants from countries where English is not the native language must also achieve a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: paper=550, web= 80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77) or successful completion of the University of Florida English Language Institute program.

- Evidence of good potential for academic success in at least three letters of recommendation.
- Evidence of acceptable skills in written expression through personal statements briefly describing their backgrounds, reasons, and career goals for studying plant medicine.

Course requirements: Students entering the program with a bachelor's degree must earn 100 credits. This includes at least 85-86 credits of course work and 15-16 credits of internship. Students entering the program with a master's degree in a related area may be allowed to transfer up to 30 credits in graduate courses corresponding to those required by the D.P.M. degree program. All D.P.M. students must complete two substantial 3-credit internships. Signed approval by a student's Committee and the D.P.M. Director is required prior to registering for substantial internship credits.

Comprehensive examination: Both written and oral comprehensive examinations are required of all D.P.M. students. The written examination has three sections: entomology/nematology, plant pathology, and plant/soil science. Faculty from the appropriate disciplines are appointed by the D.P.M. Program Director and D.P.M. Competency Exam Coordinators to develop and grade the final written examination. The three sections of the written exam may be taken independently throughout the program at the discretion of the supervisory committee and the D.P.M. Director. Students are encouraged to complete the exam prior to the last full year of the D.P.M. program and his/her anticipated semester of graduation. Students should also complete the D.P.M. Competency Area Exams before the completion of a substantial internship. After a student passes all three sections of the final written examination (80% or higher is considered a passing grade), the supervisory committee administers an oral examination that tests the student's ability to diagnose and manage plant health problems. A student who fails to pass a comprehensive examination may retake an exam once with the recommendation of his/her supervisory committee.

Specialized Degrees

Engineer

For those engineers who need additional technical depth and diversification in their education beyond the master's degree, the College of Engineering offers the degree of Engineer (Eng.). This degree requires at least 30 credits of graduate work beyond the master's degree. It is not to be considered as a partial requirement toward the Ph.D. degree. The student's objective after the master's degree should be the Ph.D. or the Engineer degree.

Admission to the program: Students must have completed a master's degree in engineering and apply for admission to the Graduate School of the University of Florida. The master's degree is regarded as the foundation for the degree of Engineer. The master's degree must be based on the candidate having a bachelor's degree in engineering from an ABET-accredited curriculum or having taken sufficient articulation course work to meet the minimum requirements specified by ABET.

Course and residence requirements: Total registration in an approved program must include at least 30 graduate credits beyond the master's degree. This minimum requirement must be earned through the University of Florida. The last 30 credits must be completed within 5 calendar years.

Supervisory committee: Each student admitted to the program needs a supervisory committee with at least 3 members of the Graduate Faculty (2 from the major academic unit, and at least 1 from a supporting academic unit). In addition, every effort should be made to have a representative from industry as an external adviser for the student's program.

This committee should be appointed as soon as possible after the student is admitted to Graduate School and no later than the end of the second term of study.

This committee informs the student of all regulations pertaining to the degree program. The committee is nominated by the academic unit chair, approved by the Dean of the College of Engineering, and appointed by the Dean of the Graduate School.

The Dean of the Graduate School is an ex-officio member of all supervisory committees. If a thesis or report is required, the committee will approve the proposed thesis or report and the plans for carrying it out. The thesis must be submitted to the Graduate School. The committee will also conduct the final examination on campus when the plan of study is completed.

Plan of study: Each plan of study is developed on an individual basis for each student. Thus, there are no specific requirements for the major or minor; each student is considered individually. If the plan of study includes a thesis, the student may register for 6 to 12 credits of 6972 (Research for Engineer's Thesis).

Thesis: The thesis should represent performance at a level above that ordinarily associated with the master's degree. It should clearly be an original contribution; this may take the form of scientific research, a design project, or an industrial project approved by the supervisory committee. Work on the thesis may be conducted in an industrial or governmental laboratory under conditions stipulated by the supervisory committee.

Final examination: After the student completes all work on the plan of study, the supervisory committee conducts a final comprehensive oral and/or written examination (for thesis students, this also involves defending the thesis).

Specialist in Education

An Ed.S. program develops competencies needed for a professional specialization. Specializations are offered in the School of Teaching and Learning, the School of Special Education, School Psychology, and Early Childhood Studies, and the School of Human Development and Organizational Studies in Education. Ed.S. applicants must apply and be admitted to UF's Graduate School. All work for the degree, including transferred credit, must be completed within 7 years before the degree is awarded.

The Ed.S. degree is awarded on completing a planned program with at least 72 credits beyond the bachelor's degree or at least 36 credits beyond the master's degree. All credits accepted for the program must contribute to the unity and the stated objective of the total program.

Students are tested (no more than 6 months before graduation) by written and oral examination. A thesis is not required; however, each program includes a research component relevant to the intended profession. With the academic unit's approval, course work taken as part of the specialist program may count toward a doctoral degree.

Students who enter the program with an appropriate master's degree from another accredited institution must complete at least 36 credits of post-master's study to meet the following requirements:

- At least 36 credits in graduate-level courses
- At least 12 credits in graduate-level professional education courses

Students who enter the program with a bachelor's degree only must (during the 72-credit program) meet these requirements in addition to the requirements of the Master of Education degree or its equivalent.

Only graduate-level (5000-7999) work, earned with a grade of B or better, is eligible for transfer of credit. A maximum of 15 transfer credits are allowed. These can include no more than 9 credits from institution/s approved by UF, with the balance obtained from postbaccalaureate work at UF. Credits transferred from other universities are applied toward meeting the degree requirements, but the grades earned are not computed in the student's grade point average. Acceptance of transfer of credit requires approval of the student's supervisory committee and the Dean of the Graduate School.

Petitions for transfer of credit for the Ed.S. degree must be made during the student's first term of enrollment in the Graduate School. The supervisory committee is responsible for basing acceptance of graduate transfer credits on established criteria for ensuring the academic integrity of course work.

Students are tested (no more than 6 months before graduation) by written and oral examination. A thesis is not required; however, each program includes a research component relevant to the intended profession. With the academic unit's approval, course work taken as part of the specialist program may count toward a doctoral degree.

Nontraditional Programs

Concurrent Graduate Programs

Any student interested in pursuing two master's degrees in two different programs or two master's degrees in the same program concurrently should discuss the proposed study with Graduate Student Records (392-4643, 106 Grinter) before applying. Written approval is needed from each academic unit and the Graduate School Dean. The student must be officially admitted to both programs through regular procedures. No more than 9 credits from the first program may be applied toward the second. Contact the academic unit(s) for details.

Joint Degree Programs

A joint degree program leads to a graduate degree and a professional degree. Normally 12 credits of professional courses count toward the graduate degree and 12 credits of graduate courses count toward the professional degree. Individual academic units determine whether a joint degree program is appropriate. Joint programs established before January 1, 2003, may have other requirements.

To participate in a joint program, a student must be admitted to both programs. Enrollment in one program may precede enrollment in the other according to timelines set by the program. During the term the student is graduating, registration is required (at least 3 credits fall or spring, or 2 credits summer). This course work must be credit that applies toward the graduate degree requirements. See graduate coordinator for details.

Combined Bachelor's/Master's Degree Programs

UF offers a number of bachelor's/master's programs for superior students. In these programs, 12 credits of graduate-level courses are counted for both degrees. See Transfer of Credit for requirements. For admission requirements and available programs, contact the academic unit.

State University System Programs

Traveling Scholar program: By mutual agreement of the appropriate academic authorities in both the home and host institutions, traveling scholars' admission requirements are waived and their earned credits are guaranteed acceptance. Traveling scholars are normally limited to 1 term on the host campus, and it cannot be their final term. The program offers special resources on another campus that are not available on the student's home campus. To participate, graduate students need prior approval from their graduate coordinator, their supervisory committee chair, and the Dean of the Graduate School. Interested students should contact Graduate Student Records, 106 Grinter Hall.

Cooperative degree programs: In certain degree programs, faculty from other universities in the State University System hold Graduate Faculty status at UF. In those approved areas, the intellectual resources of these Graduate Faculty members are available to students at UF.

Colleges and Departments

[Click here to find information about individual homepages.](#)

[University of Florida](#)

College of Agricultural and Life Sciences

[Go to information for College of Agricultural and Life Sciences.](#)

Agricultural and Biological Engineering Department

[Go to information for Agricultural and Biological Engineering Department.](#)

Agricultural Education and Communication Department

[Go to information for Agricultural Education and Communication Department.](#)

Agronomy Department

[Go to information for Agronomy Department.](#)

Animal Molecular and Cellular Biology Department

[Go to information for Animal Molecular and Cellular Biology Department.](#)

Animal Sciences Department

[Go to information for Animal Sciences Department.](#)

Entomology and Nematology Department

[Go to information for Entomology and Nematology Department.](#)

Family, Youth, and Community Sciences Department

[Go to information for Family, Youth, and Community Sciences Department.](#)

Food and Resource Economics Department

[Go to information for Food and Resource Economics Department.](#)

Food Science and Human Nutrition Department

[Go to information for Food Science and Human Nutrition Department.](#)

Horticultural Sciences Department

[Go to information for Horticultural Sciences Department.](#)

Microbiology and Cell Science Department

[Go to information for Microbiology and Cell Science Department.](#)

Plant Molecular and Cellular Biology Department

[Go to information for Plant Molecular and Cellular Biology Department.](#)

Plant Pathology Department

[Go to information for Plant Pathology Department.](#)

School of Forest Resources and Conservation

[Go to information for School of Forest Resources and Conservation.](#)

School of Natural Resources and Environment

[Go to information for School of Natural Resources and Environment.](#)

Soil and Water Science Department

[Go to information for Soil and Water Science Department.](#)

Wildlife Ecology and Conservation Department

[Go to information for Wildlife Ecology and Conservation Department.](#)

College of the Arts

[Go to information for College of the Arts.](#)

School of Art and Art History

[Go to information for School of Art and Art History.](#)

Digital Worlds Institute

[Go to information for Digital Worlds Institute.](#)

Music Department

[Go to information for Music Department.](#)

School of Theatre and Dance

[Go to information for School of Theatre and Dance.](#)

Warrington College of Business Administration

[Go to information for Warrington College of Business Administration.](#)

Fisher School of Accounting

[Go to information for Fisher School of Accounting.](#)

Economics Department

[Go to information for Economics Department.](#)

Finance, Insurance, and Real Estate Department

[Go to information for Finance, Insurance, and Real Estate Department.](#)

Information Systems and Operations Management Department

[Go to information for Information Systems and Operations Management Department.](#)

Management Department

[Go to information for Management Department.](#)

Marketing Department

[Go to information for Marketing Department.](#)

College of Dentistry

[Go to information for College of Dentistry.](#)

Dental Sciences Department

[Go to information for Dental Sciences Department.](#)

College of Design, Construction, and Planning

[Go to information for College of Design, Construction, and Planning.](#)

School of Architecture

[Go to information for School of Architecture.](#)

M.E. Rinker, Sr., School of Construction Management

[Go to information for M.E. Rinker, Sr., School of Construction Management.](#)

Interior Design Department

[Go to information for Interior Design Department.](#)

Landscape Architecture Department

[Go to information for Landscape Architecture Department.](#)

Urban and Regional Planning Department

[Go to information for Urban and Regional Planning Department.](#)

College of Education

[Go to information for College of Education.](#)

Human Development and Organizational Studies in Education Department

[Go to information for Human Development and Organizational Studies in Education Department.](#)

Special Education, School Psychology and Early Childhood Studies Department

[Go to information for Special Education, School Psychology and Early Childhood Studies Department.](#)

School of Teaching and Learning

[Go to information for School of Teaching and Learning.](#)

College of Engineering

[Go to information for College of Engineering.](#)

Agricultural and Biological Engineering Department

[Go to information for Agricultural and Biological Engineering Department.](#)

Biomedical Engineering Department

[Go to information for Biomedical Engineering Department.](#)

Chemical Engineering Department

[Go to information for Chemical Engineering Department.](#)

Civil and Coastal Engineering Department

[Go to information for Civil and Coastal Engineering Department.](#)

Computer and Information Science and Engineering Department

[Go to information for Computer and Information Science and Engineering Department.](#)

Electrical and Computer Engineering Department

[Go to information for Electrical and Computer Engineering Department.](#)

Environmental Engineering Sciences Department

[Go to information for Environmental Engineering Sciences Department.](#)

Industrial and Systems Engineering Department

[Go to information for Industrial and Systems Engineering Department.](#)

Materials Science and Engineering Department

[Go to information for Materials Science and Engineering Department.](#)

Mechanical and Aerospace Engineering Department

[Go to information for Mechanical and Aerospace Engineering Department.](#)

Nuclear and Radiological Engineering Department

[Go to information for Nuclear and Radiological Engineering Department.](#)

College of Health and Human Performance

[Go to information for College of Health and Human Performance.](#)

Applied Physiology and Kinesiology Department

[Go to information for Applied Physiology and Kinesiology Department.](#)

Department of Health Education & Behavior

[Go to information for Department of Health Education & Behavior.](#)

Tourism, Recreation, and Sport Management Department

[Go to information for Tourism, Recreation, and Sport Management Department.](#)

College of Journalism and Communications

[Go to information for College of Journalism and Communications.](#)

Fredric G. Levin College of Law

[Go to information for Fredric G. Levin College of Law.](#)

Comparative Law Department

[Go to information for Comparative Law Department.](#)

Environmental and Land Use Law Department

[Go to information for Environmental and Land Use Law Department.](#)

Taxation Department

[Go to information for Taxation Department.](#)

College of Liberal Arts and Sciences

[Go to information for College of Liberal Arts and Sciences.](#)

Animal Molecular and Cellular Biology Department

[Go to information for Animal Molecular and Cellular Biology Department.](#)

Anthropology Department

[Go to information for Anthropology Department.](#)

Astronomy Department

[Go to information for Astronomy Department.](#)

Biology Department

[Go to information for Biology Department.](#)

Chemistry Department

[Go to information for Chemistry Department.](#)

Classics Department

[Go to information for Classics Department.](#)

Computer and Information Science and Engineering Department

[Go to information for Computer and Information Science and Engineering Department.](#)

Sociology and Criminology & Law Department

[Go to information for Sociology and Criminology & Law Department.](#)

English Department

[Go to information for English Department.](#)

Geography Department

[Go to information for Geography Department.](#)

Geological Sciences Department

[Go to information for Geological Sciences Department.](#)

History Department

[Go to information for History Department.](#)

Department of Languages, Literatures and Cultures

[Go to information for Department of Languages, Literatures and Cultures.](#)

Latin American Studies Department

[Go to information for Latin American Studies Department.](#)

Linguistics Department

[Go to information for Linguistics Department.](#)

Mathematics Department

[Go to information for Mathematics Department.](#)

Philosophy Department

[Go to information for Philosophy Department.](#)

Physics Department

[Go to information for Physics Department.](#)

Plant Molecular and Cellular Biology Department

[Go to information for Plant Molecular and Cellular Biology Department.](#)

Political Science Department

[Go to information for Political Science Department.](#)

Psychology Department

[Go to information for Psychology Department.](#)

Religion Department

[Go to information for Religion Department.](#)

Spanish and Portuguese Studies Department

[Go to information for Spanish and Portuguese Studies Department.](#)

Statistics Department

[Go to information for Statistics Department.](#)

Women's Studies Department

[Go to information for Women's Studies Department.](#)

College of Medicine

[Go to information for College of Medicine.](#)

Biochemistry and Molecular Biology Department

[Go to information for Biochemistry and Molecular Biology Department.](#)

Biostatistics Department

[Go to information for Biostatistics Department.](#)

Epidemiology Department

[Go to information for Epidemiology Department.](#)

Health Outcomes and Policy Department

[Go to information for Health Outcomes and Policy Department.](#)

Molecular Genetics and Microbiology Department

[Go to information for Molecular Genetics and Microbiology Department.](#)

College of Nursing

[Go to information for College of Nursing.](#)

College of Pharmacy

[Go to information for College of Pharmacy.](#)

Medicinal Chemistry Department

[Go to information for Medicinal Chemistry Department.](#)

Pharmaceutics Department

[Go to information for Pharmaceutics Department.](#)

Pharmacodynamics Department

[Go to information for Pharmacodynamics Department.](#)

Pharmaceutical Outcomes and Policy Department

[Go to information for Pharmaceutical Outcomes and Policy Department.](#)

Pharmacotherapy and Translational Research Department

[Go to information for Pharmacotherapy and Translational Research Department.](#)

College of Public Health and Health Professions

[Go to information for College of Public Health and Health Professions.](#)

Behavioral Science and Community Health Department

[Go to information for Behavioral Science and Community Health Department.](#)

Biostatistics Department

[Go to information for Biostatistics Department.](#)

Clinical and Health Psychology Department

[Go to information for Clinical and Health Psychology Department.](#)

Environmental and Global Health Department

[Go to information for Environmental and Global Health Department.](#)

Epidemiology Department

[Go to information for Epidemiology Department.](#)

Health Services Research, Management, and Policy Department

[Go to information for Health Services Research, Management, and Policy Department.](#)

Occupational Therapy Department

[Go to information for Occupational Therapy Department.](#)

Speech, Language and Hearing Sciences Department

[Go to information for Speech, Language and Hearing Sciences Department.](#)

College of Veterinary Medicine

[Go to information for College of Veterinary Medicine.](#)

Animal Molecular and Cellular Biology Department

[Go to information for Animal Molecular and Cellular Biology Department.](#)

Interdisciplinary Research

[Click here for information about UF's interdisciplinary research centers.](#)

Many [interdisciplinary](#) and [traditional programs, colleges,](#) and [departments](#), across UF, come together to serve the university and our entire community. The information in this catalog is current as of July 2014. Please contact individual programs for any additional information or changes.

Graduate Majors and Concentrations

The following majors⁺ are offered by the University of Florida Graduate School. Graduate concentrations⁺ appear in parentheses following the major; additional interdisciplinary and/or multi-college concentrations⁺ follow the individual college's listings. For further definitions, see below.⁺

College of Agricultural and Life Sciences

[Go to information for College of Agricultural and Life Sciences.](#)

- [Agricultural and Biological Engineering \(CALS\)](#)
- [Agricultural Education and Communication](#)
- [Agronomy](#)
- [Animal Molecular and Cellular Biology](#)
- [Animal Sciences](#)
- [Entomology and Nematology](#)

- [Family, Youth, and Community Sciences](#)
- [Fisheries and Aquatic Sciences](#)
- [Food and Resource Economics](#)
- [Food Science](#)
- [Food Science and Human Nutrition](#)
- [Forest Resources and Conservation](#)
- [Genetics and Genomics](#)
- [Horticultural Sciences](#)
- [Interdisciplinary Ecology](#)
- [Microbiology and Cell Science](#)
- [Nutritional Sciences](#)
- [Plant Medicine](#)
- [Plant Molecular and Cellular Biology](#)
- [Plant Pathology](#)
- [Soil and Water Science](#)
- [Wildlife Ecology and Conservation](#)

College of the Arts

[Go to information for College of the Arts.](#)

- [Art](#)
- [Art Education](#)
- [Art History](#)
- [Arts in Medicine](#)
- [Digital Arts and Sciences \(Arts\)](#)
- [Museology](#)
- [Music](#)
- [Music Education](#)
- [Theatre](#)

Warrington College of Business Administration

[Go to information for Warrington College of Business Administration.](#)

- [Accounting](#)
- [Business Administration \(Accounting\)](#)
- [Business Administration \(Finance, Insurance, and Real Estate\)](#)
- [Business Administration \(Information Systems and Operations Management\)](#)
- [Business Administration \(M.A.\)](#)
- [Business Administration \(M.B.A.\)](#)
- [Business Administration \(M.S.\)](#)
- [Business Administration \(Management\)](#)
- [Business Administration \(Marketing - Master's\)](#)
- [Business Administration \(Marketing - Ph.D.\)](#)
- [Business Administration \(Ph.D.\)](#)
- [Economics](#)
- [Entrepreneurship](#)
- [Finance](#)
- [Information Systems and Operations Management](#)
- [International Business](#)
- [Management](#)
- [Real Estate](#)

College of Dentistry

[Go to information for College of Dentistry.](#)

- [Dental Sciences](#)

College of Design, Construction, and Planning

[Go to information for College of Design, Construction, and Planning.](#)

- [Architecture](#)
- [Construction Management](#)
- [Design, Construction, and Planning \(Ph.D.\)](#)
- [Fire and Emergency Services](#)
- [Historic Preservation](#)
- [Interior Design](#)
- [International Construction Management](#)
- [Landscape Architecture](#)
- [Sustainable Construction](#)
- [Urban and Regional Planning](#)

College of Education

[Go to information for College of Education.](#)

- [Counseling and Counselor Education](#)
- [Curriculum and Instruction \(CCD\)](#)

- [Curriculum and Instruction \(ISC\)](#)
- [Early Childhood Education](#)
- [Educational Leadership](#)
- [Elementary Education](#)
- [English Education](#)
- [Higher Education Administration](#)
- [Marriage and Family Counseling](#)
- [Mathematics Education](#)
- [Mental Health Counseling](#)
- [Reading Education](#)
- [Research and Evaluation Methodology](#)
- [School Counseling and Guidance](#)
- [School Psychology](#)
- [Science Education](#)
- [Social Studies Education](#)
- [Special Education](#)
- [Student Personnel in Higher Education](#)

College of Engineering

[Go to information for College of Engineering.](#)

- [Acrospace Engineering](#)
- [Agricultural and Biological Engineering \(Engineering\)](#)
- [Biomedical Engineering](#)
- [Chemical Engineering](#)
- [Civil Engineering](#)
- [Coastal and Oceanographic Engineering](#)
- [Computer Engineering](#)
- [Digital Arts and Sciences \(Engineering\)](#)
- [Electrical and Computer Engineering](#)
- [Environmental Engineering Sciences](#)
- [Industrial and Systems Engineering](#)
- [Materials Science and Engineering](#)
- [Mechanical Engineering](#)
- [Nuclear Engineering Sciences](#)

College of Health and Human Performance

[Go to information for College of Health and Human Performance.](#)

- [Applied Physiology and Kinesiology](#)
- [Health and Human Performance](#)
- [Health Education and Behavior](#)
- [Recreation, Parks, and Tourism](#)
- [Sport Management](#)

College of Journalism and Communications

[Go to information for College of Journalism and Communications.](#)

- [Advertising](#)
- [Mass Communication](#)

Fredric G. Levin College of Law

[Go to information for Fredric G. Levin College of Law.](#)

- [Comparative Law](#)
- [Environmental and Land Use Law](#)
- [International Taxation](#)
- [Taxation](#)

College of Liberal Arts and Sciences

[Go to information for College of Liberal Arts and Sciences.](#)

- [Animal Molecular and Cellular Biology](#)
- [Anthropology](#)
- [Astronomy](#)
- [Botany](#)
- [Chemistry](#)
- [Classical Studies](#)
- [Computer Science](#)
- [Counseling Psychology](#)
- [Creative Writing](#)
- [Criminology, Law and Society](#)
- [English](#)
- [French and Francophone Studies](#)
- [Genetics and Genomics](#)
- [Geography](#)

- [Geology](#)
- [German](#)
- [History](#)
- [Latin](#)
- [Latin American Studies](#)
- [Linguistics](#)
- [Mathematics](#)
- [Philosophy](#)
- [Physics](#)
- [Plant Molecular and Cellular Biology](#)
- [Political Science](#)
- [Political Science - International Relations](#)
- [Psychology \(Psychology - CLAS\)](#)
- [Religion](#)
- [Romance Languages \(Language, Literature and Culture\)](#)
- [Romance Languages \(Spanish and Portuguese Studies\)](#)
- [Sociology](#)
- [Spanish](#)
- [Statistics](#)
- [Sustainable Development Practice](#)
- [Women's Studies](#)
- [Zoology](#)

College of Medicine

[Go to information for College of Medicine.](#)

- [Biochemistry and Molecular Biology](#)
- [Biostatistics \(Medicine\)](#)
- [Epidemiology \(Medicine\)](#)
- [Genetics and Genomics](#)
- [Medical Sciences](#)
- [Molecular Genetics and Microbiology](#)

College of Nursing

[Go to information for College of Nursing.](#)

- [Nursing](#)
- [Nursing Sciences](#)

College of Pharmacy

[Go to information for College of Pharmacy.](#)

- [Pharmaceutical Sciences \(Medicinal Chemistry\)](#)
- [Pharmaceutical Sciences \(Pharmaceutical Outcomes and Policy\)](#)
- [Pharmaceutical Sciences \(Pharmaceutics\)](#)
- [Pharmaceutical Sciences \(Pharmacodynamics\)](#)
- [Pharmaceutical Sciences \(Pharmacotherapy and Translational Research\)](#)

College of Public Health and Health Professions

[Go to information for College of Public Health and Health Professions.](#)

- [Audiology](#)
- [Biostatistics \(PHHP\)](#)
- [Communication Sciences and Disorders](#)
- [Environmental and Global Health \(M.H.S. - One Health\)](#)
- [Epidemiology \(PHHP\)](#)
- [Health Administration](#)
- [Health Services Research](#)
- [Occupational Therapy](#)
- [Psychology \(Clinical and Health Psychology - PHHP\)](#)
- [Public Health \(M.P.H.\)](#)
- [Public Health \(Ph.D. - Environmental and Global Health\)](#)
- [Public Health \(Ph.D. - One Health\)](#)
- [Public Health \(Ph.D. - Social and Behavioral Sciences\)](#)
- [Public Health \(Ph.D.\)](#)
- [Rehabilitation Science](#)

College of Veterinary Medicine

[Go to information for College of Veterinary Medicine.](#)

- [Animal Molecular and Cellular Biology](#)
- [Veterinary Medical Sciences](#)

Interdisciplinary Concentrations

[Agroforestry](#)
[Animal Molecular and Cell Biology](#)
[Clinical and Translational Science](#)
[Geographic Information Systems](#)
[Historic Preservation](#)
[Hydrologic Sciences](#)
[Quantitative Finance](#)
[Sustainable Architecture](#)
[Sustainable Design](#)
[Tropical Conservation and Development](#)
[Wetland Sciences](#)
[Women's and Gender Studies](#)

Interdisciplinary Graduate Concentrations

A number of graduate programs offer interdisciplinary enhancements in the form of concentrations, field research, or certificates. The following programs offer interdisciplinary study leading to a concentration or minor, whether offered by a single college or by multiple colleges. Please follow individual links within the Majors Section of this catalog or contact the programs directly for further information.

The agroforestry interdisciplinary concentration is administered through the School of Forest Resources and Conservation. It offers facilities for interdisciplinary graduate education (M.S., Ph.D.) by combining course work and research around a thematic field focusing on agroforestry, especially in the context of tropical land use. Students seeking admission to the concentration need a degree in a relevant field such as agronomy, forestry, horticulture, soil science, or social sciences. They should apply to the School of Forest Resources and Conservation or another academic unit that closely represents their background and interest. Course work may be chosen from several related disciplines. Thesis research can be undertaken in Florida or overseas. Degrees are awarded through the academic units the candidates are enrolled in.

In conjunction with the graduate degree, a student can earn a concentration or minor in agroforestry by fulfilling certain requirements. Students who have a primary interest in agroforestry and undertake graduate research on an agroforestry topic can seek the concentration. Those who have an active interest and some training in agroforestry, but do not conduct graduate research on an agroforestry topic, can earn a minor. Candidates meeting the requirements can have Concentration in Agroforestry or Minor in Agroforestry appear on their transcripts.

Each option requires completing FNR 5335 (Agroforestry) and an appropriate number of approved supporting courses. These courses should be distributed over at least two academic units outside the major to prepare the student to function in multidisciplinary teams and to associate with professionals from other disciplines. Students whose background is in biology are encouraged to take social science courses, and vice versa.

For a student with a concentration or minor in agroforestry, at least one member of the supervisory committee should represent agroforestry. The Agroforestry Program Advisory Committee requires this member to counsel the student on selecting courses and the research topic.

For more information, contact the Agroforestry Program Leader, 330 Newins-Ziegler Hall, Phone (352) 846-0880, Fax (352) 846-1277, E-mail pknair@ufl.edu.

The interdisciplinary concentration in animal molecular and cell biology (AMCB) gives graduate students in the animal and veterinary sciences an understanding of principles of molecular and cell biology as applied to animal health and production. It emphasizes participation in molecular and cell biology research and provides an intellectual environment for cross-fertilization among disciplines. The AMCB gives graduate students access to the diverse research facilities needed to study cellular and molecular biology, reproductive biology, virology, immunology, and endocrinology. Facilities exist for recombinant DNA research, experimental surgery, in vitro culture of cells, tissue and organ explants, embryo manipulation, vaccine production, and recombinant protein engineering.

Ph.D. degrees are awarded by participating academic units, with an interdisciplinary concentration in animal molecular and cell biology. Applicants need a strong background in animal or veterinary sciences. Graduate degree programs are designed by each student's supervisory committee, headed by the member who represents AMCB. All students must complete a core curriculum, may obtain cross-disciplinary training through rotations in laboratories of participating faculty, and may participate in the AMCB seminar series.

Requirements for admission to AMCB are the same as for the faculty adviser's academic unit and college.

Note that typically students interested in education through the AMCB enroll in the AMCB graduate program rather than the AMCB interdisciplinary concentration. For more information, contact Dr. Peter J. Hansen, Department of Animal Sciences, pjhansen@ufl.edu.

Clinical and Translational Science

This unique concentration in the Master of Science program in medical sciences was developed by an interdisciplinary faculty to provide sound didactic background in the foundations of clinical research. Core course requirements cover study design, data analysis, ethical conduct of research, epidemiology, manuscript and abstract writing, and grant writing. Additional electives in specific fields may be taken from other concentrations or programs. A research thesis designed and conducted with a clinical research mentor is required.

For clinically trained M.D.s and other doctoral-level health professionals, the M.S. concentration in clinical and translational science (MS-CTS) may be part of a more-complete training experience in clinical research offered through the College of Medicine as the Advanced Postgraduate Program in Clinical Investigation (APPCI).

For more information:
 Dr. Marian Limacher
 Program Director
 P.O. Box 100277
 Health Science Center
 Gainesville, FL 32610

<http://www.ctsi.ufl.edu/education/programs/ph-d-students/cts-interdisciplinary-concentration/>

Geographic Information Systems (GIS) revolutionized the way land features are located, measured, inventoried, managed, planned, and studied. GIS provides theories and methods for measuring location and topography, physical and biological attributes, and distribution of cultural components through data storage, analysis, modeling, mapping, and data display.

GIS applications are diverse. They include determining the suitability of land for different uses, planning future land uses, setting cadastral boundaries for the purpose of property recognition and taxation and regulation, analyzing land and land-cover for both resource inventories and scientific studies, and siting commercial enterprises.

Users and producers of GIS include engineers, geographers, planners, biologists and ecologists, land resource managers, archaeologists, sociologists, public health professionals, medical researchers, property tax assessors, law enforcement officers, land-development companies, utility companies, and retail stores. Undergraduate and graduate students who learn to use GIS technology are in high demand and so start at higher salaries than their non-GIS peers. As a result the GIS community at the University of Florida developed the **Interdisciplinary Concentration for Geographic Information Systems (ICGIS)**.

The ICGIS integrates existing GIS resources on campus, for graduate students, in response to changing regulatory environments in institutions and governments at all levels. This concentration established a standard set of courses and activities that allow graduate students to become experts in creating, studying, and using geographic information. Such graduates are in strong positions to meet future regulatory requirements for certification as professionals. Structurally, the ICGIS established a five-category curriculum within the standard M.S., M.A., M.E., or Ph.D. requirements. Completing the GIS concentration is officially recognized by statements on transcripts and a certificate.

For more information, contact Dr. Scot E. Smith, University of Florida, P.O. Box 110565, Gainesville FL 32611, Phone (352) 392-4990, E-mail sesmith@ifas.ufl.edu.

Historic preservation is the safeguarding of all cultural heritage: tangible and intangible. The College of Design, Construction, and Planning offers an interdisciplinary opportunity to study for the profession through multiple fields including archeology, architecture, landscape architecture, urban and regional planning, interior design, building construction, museum studies, law, and cultural tourism. The master's degree course work is practical and technical in scope and includes the study of history, research techniques, traditional crafts, materials conservation, documentation, interpretation, cultural research management, housing, urban rejuvenation and adaptive use of historic structures, restoration methodologies, economics, green design and sustainable/livable communities.

The 21st century offers significant expansion of the field of heritage conservation to address smart growth, sustainability, and economic development initiatives. Many related jobs exist, including preservation consultant, preservation contractor, preservation researcher, Main Street program director, site manager, lawyer, archaeologist, cultural resource manager, historian, real estate professional, and policy administrator.

The College offers several nationally recognized field schools or practica: Preservation Institute: Nantucket, Traditional Crafts Field School, and the National Historic Landmarks District in Saint Augustine, America's oldest city.

The Interdisciplinary Concentration and Certificate in Historic Preservation (ICCHP) integrates resources throughout UF to address the diverse topics relevant to the field. Thus, the ICCHP establishes a set of courses that allow graduate students to gain expertise in researching and applying historic preservation in the United States and abroad. Depending on the student's career goals and background, this can include recognizing, documenting, and protecting historic structures and sites; rehabilitation and restoration technologies; and exploring emerging and related specializations such as community development and sustainable development.

The interdisciplinary curriculum structure draws on course work providing 12 credits for master's students and 15 credits for Ph.D. students specializing in historic preservation. The concentration is officially recognized by statements on the transcript and by a certificate.

For more information, contact Morris Hylton, Director of Historic Preservation Programs, University of Florida, P.O. Box 115701, Gainesville FL 32611. Phone (352)392-0252, ext. 457. E-mail mhylton@ufl.edu.

The University of Florida College of Design, Construction and Planning offers a **Master of Historic Preservation** degree using an interdisciplinary variety of coursework in the basic and applied skills and arts of historic preservation, anthropology, archeology, architecture, building construction, cultural tourism, history, interior design, landscape architecture, museum studies, and urban and regional planning. The coursework totals 42 hours. Students must take 12 hours of core courses, 6 hours of pre-approved history electives, and may choose from pre-approved and specially approved electives from across the campus. A true thesis to meet Graduate Requirements relating to historic preservation is required.

Program of Study

The Master of Historic Preservation degree program promotes interdisciplinary thinking in historic preservation by combining (1) required coursework in history and theory, research, documentation and recording historic sites, conservation of building materials and systems, and practica or other practical experience with (2) two courses in the history of the designed environment (including, for example architecture, urban development, landscape architecture, archeology, or material culture.) with (3) electives from a list of courses identified by the faculty, in the subject areas of resource-related studies including design issues, neighborhood issues (zoning, strategic planning, housing and social aspects of real estate development) historic and cultural landscape issues, historic interior issues, economic issues (marketing principles, private and public finance, property management and budget preparation), legal issues (Constitutional law, preservation case law, federal, state and local regulatory legislation and administration) sustainability issues traditional building crafts and curatorial issues (site development interpretation, management and cultural tourism). A true thesis that meets Graduate Requirements on an approved historic preservation topic is also required.

For more information contact:

For more information contact

Marty Hylton
Graduate Coordinator
mhylton@dcp.ufl.edu
352-392-0252 ext. 457

Pat DeJong
Student Affairs Coordinator
patricde@dcp.ufl.edu
352-392-4836 ext. 312

Interdisciplinary graduate studies in hydrologic sciences are for science and engineering students seeking advanced training in diverse aspects of water quantity and quality, and water-use issues. This concentration emphasizes (1) understanding the physical, chemical, and biological processes occurring over broad spatial and temporal scales; and (2) skills in hydrologic policy and management based on a strong background in natural and social sciences and engineering.

Graduate Faculty from eight departments in three colleges contribute to this interdisciplinary concentration. Depending on academic background and research interests, students may earn a degree in any one of the following departments: Agricultural and Biological Engineering, Civil and Coastal Engineering, Environmental Engineering Sciences, Food and Resource Economics, Forest Resources and Conservation, Geography, Geological Sciences, , and Soil and Water Science.

M.S. (thesis and non-thesis option) and Ph.D. studies are available. Interdisciplinary graduate requirements recognize diversity in the academic backgrounds and professional goals of the students. A core curriculum (12 credits for M.S.; 18 credits for Ph.D.) provides broad training in six topics: subsurface hydrology, surface hydrology, hydrologic chemistry, hydrologic ecology, hydrologic analysis and techniques, and hydrologic policy and management. Research projects involving faculty from several academic units can provide the basis for thesis and dissertation research topics.

Students with B.S. or M.S. degrees in any of the following disciplines are encouraged to consider this specialization in their graduate program: engineering (agricultural, chemical, civil, environmental); natural sciences (physics, biology, chemistry); social sciences (agricultural and resource economics); forestry; and earth sciences (geography, geology, soil and water science).

For more information, contact Dr. Wendy Graham, UF Water Institute, P.O. Box 116601, Gainesville FL 32611, Phone (352) 392-5893, E-mail water-institute@ufl.edu, or visit the Hydrologic Sciences Academic Cluster website (<http://www.hydrology.ufl.edu>).

The interdisciplinary concentration in quantitative finance trains students for academic and research positions in quantitative finance, and risk management. It gives graduates an edge in the job market by providing substantial expertise in key related disciplines: finance, operations research, statistics, mathematics, and software development. It is focused in teaching and research on design, development, and implementing new financial and risk management products, processes, strategies, and systems to meet demands of various institutions, corporations, governments, and households. Emphasis is on an interdisciplinary approach requiring knowledge in finance, economics, mathematics, probability/statistics, operations research, engineering, and computer

science.

Four academic units participate in this interdisciplinary concentration: Industrial and Systems Engineering (College of Engineering), Mathematics (College of Liberal Arts and Sciences), Statistics (College of Liberal Arts and Sciences), and Finance, Insurance, and Real Estate (College of Business Administration). To be eligible, a student must be admitted to a Ph.D. program in one of these participating academic units. Students seeking admission to the concentration need strong quantitative skills and a degree in one of the relevant fields such as finance, engineering, statistics, or mathematics. Students with a background in several disciplines are welcome. Application should be submitted to one of the participating academic units.

Each student takes basic courses and meets the home academic unit's Ph.D. requirements. The student also takes approved courses in the other participating academic units to meet the requirements of the concentration.

Dissertation research is conducted in quantitative finance, risk management, and relevant areas involving quantitative finance approaches. The student receives a Ph.D. degree and a Certificate in Quantitative Finance.

Activities of the Ph.D. concentration in quantitative finance are supported by the Risk Management and Financial Engineering Laboratory (RMFE Lab), <http://www.ise.ufl.edu/rmfe>. The RMFE Lab facilitates research and applications in the area of risk management and financial mathematics/engineering, including organizing research meetings, seminars, and conferences. It provides a basis for the collaborative efforts of multidisciplinary teams of UF researchers, governmental institutions, and industrial partners.

The Concentration and Certificate in Sustainable Architecture is for architecture graduate students (in the M.Arch. or M.S.A.S. program) seeking advanced courses on a wide range of topics related to sustainable architecture. The concentration in sustainable architecture supports detailed rigorous study in specific areas of expertise. Furthermore, the program requirements recognize the inherent diversity of academic backgrounds and professional goals of the students. Thus, there is flexibility in the selection of a suite of courses, while maintaining exposure to the multidisciplinary subject matter of sustainable architecture. This essential feature of the program allows students to develop individualized yet focused plans of study. Students select from a variety of approved courses offered in the College of Design, Construction, and Planning (the School of Architecture, the School of Building Construction, the Department of Interior Design, the Department of Landscape Architecture, and the Department of Urban and Regional Planning); and in other colleges in the University. Course work may include the following sustainability issues.

- **Architectural design and preventing environmental degradation:** protecting ecosystems, fauna and flora, energy consumption, energy conservation, architectural commissioning, maintenance, water consumption, land use, and materials selection (resource depletion, environmental degradation, and healthy environments)
- **Providing healthy architectural environments:** indoor air environmental quality, nontoxic environments, and sustainable ecosystems and landscapes
- **Responsive and responsible building design and construction:** environmentally responsive architecture, and environmentally responsible architecture
- **Sustainable architectural and environment theory:** the philosophy of sustainable design, ecological theory, sustainability and ethics, deep ecology, and systems theory
- **Enhancing the community environment:** historic preservation, sustainable developments, community and neighborhood design, regional design, and systems theory
- **Mitigating the environmental effects of construction operations:** life cycle operations, design longevity, reusing materials, recycling materials, deconstruction, and reconstruction.

Students enrolled in the Concentration and Certificate Program in Sustainable Architecture must complete at least 12 credits of approved sustainable architecture electives. Students must complete at least 6 credits within the School of Architecture; and at least one approved 3 credit course from outside the School of Architecture. Students also must complete a research project or thesis on a subject pre-approved by the concentration's Governing Board, related to sustainable architecture. For more information, contact the Graduate Program Assistant, School of Architecture, University of Florida, Box 115702, Gainesville FL 32611-5702, Phone (352) 392-0205 ext. 202, E-mail bhuds@ufl.edu

The Interdisciplinary Concentration and Certificate in Sustainable Design (ICCS) is for master's-level students in the College of Design, Construction, and Planning. This concentration allows students to become proficient in one or more of the following areas: sustainable architecture, sustainable construction, sustainable interior design, sustainable landscape architecture, or sustainable urban planning. Course work deals with the following issues.

- **Preventing environmental degradation:** protecting ecosystems, fauna and flora, energy conservation, energy consumption, architectural commissioning, maintenance, water consumption, land use, site selection, and materials selection (resource depletion, environmental degradation, and healthy environments)
- **Providing healthy environments:** indoor air environmental quality, outdoor environmental quality, nontoxic environments, and sustainable ecosystems and landscapes
- **Responsive and responsible building construction:** construction impacts on sites, environmentally responsive architecture, environmentally responsible architecture (preventing environmental degradation), and designing sustainable building components
- **Mitigating the environmental effects of construction operations:** life cycle operations, design longevity, reusing materials, recycling materials, deconstruction, reconstruction, and historic preservation
- **Enhancing the community environment:** sustainable developments, community and neighborhood design, regional design, and city planning design
- **Environmental theory:** the philosophy of sustainable design, ecological theory, sustainability and ethics, deep ecology, and systems theory.

Students wishing to participate in the ICCS should notify their department or school as early in the graduate program as possible. To participate in the ICCS, a student must be admitted and enrolled in one of the departments participating in the ICCS. Students will complete the concentration for either the master's degree or Master of Science degree, but not for both degrees if awarded from the University of Florida. **Students cannot enroll in two concentration programs at the same time.**

To successfully complete the ICCS, the student must earn 12 credit hours in sustainable design research and course work from a list of recommended courses. To satisfy the interdisciplinary intent of the ICCS, the student must take one of the approved 3 credit courses outside their home department or school, but within the College of Design, Construction, and Planning and at least one approved 3 credit course from another college of the University. For more information, contact the Dean's Office in the College of Design, Construction, and Planning, University of Florida, Box 115701, Gainesville FL 32611, Telephone (352) 392-4836.

The Tropical Conservation and Development Program (TCD), in the Center for Latin American Studies, offers an interdisciplinary graduate certificate and graduate concentration focused on integrative approaches to conservation and development in the tropics, including sub-tropical and temperate areas in developing countries. Both the certificate and concentration are open to students who are interested in acquiring interdisciplinary knowledge and technical skills to pursue a career in conservation and development research and practice. These students must be enrolled in master's or Ph.D. programs in TCD's affiliate academic units at the University of Florida.

Course work for the certificate and the concentration includes social science theory, principles of tropical ecology, and patterns and trends of tropical resource use and conservation. TCD core courses also allow students to gain essential practical skills. Emphasis is on communication and presentation techniques, grant writing, proposal writing, and fundraising facilitation and conflict management; participatory methods for research and project implementation; and project design, analysis, and evaluation. Summer research, practitioner experiences, and field-based training programs provide learning opportunities outside the classroom.

On completing the certificate or concentration, students should have an in-depth understanding of the relationships among biological conservation, resource management, and the livelihood needs of rural communities; and the appropriate professional skills for a career in research, field practice, or both.

TCD's affiliate academic units are African Studies, Agricultural and Biological Engineering, Agricultural Education and Communication, Agronomy, Anthropology, Architecture, Biology, Comparative Law, Entomology and Nematology, Food and Resource Economics, Forest Resources and Conservation, Geography, Geology, Latin American Studies, Natural History Museum, Natural Resources and Environment, Plant Medicine, Political Science, Religion, Sociology, Soil and Water Science, Tourism, Recreation and Sports Management, Urban and Regional Planning, Wildlife Ecology and Conservation, and Women's Studies.

Master's students can earn a certificate in TCD by completing 12 credits of approved course work: 2 interdisciplinary core courses and 1 course each in tropical ecology and social science. Ph.D. students can earn a certificate by completing 15 credits of approved course work (3 interdisciplinary core courses and 1 course each in tropical ecology and social science). Students from natural science academic units must take the social science credits outside their major. Otherwise, courses from the student's major can count toward program requirements. Substitutions need prior approval from the TCD faculty adviser.

To earn a concentration in TCD, students must complete the course requirements for the certificate (as explained above) and they must focus on conservation and development in their thesis, dissertation, or final project. One member of the student's supervisory committee must be a TCD affiliate faculty member. This person is responsible for judging whether the student's thesis

focuses on tropical conservation and/or development. For the faculty member to make this judgment, the student must articulate in writing how the research fits in the broader context of biodiversity conservation and/or rural development in the tropics, subtropics, or temperate areas in developing countries. This person cannot count as the external member of the committee.

For more information on the TCD certificate and concentration program, and for a list of approved courses, visit the TCD website (<http://www.ufl.edu>), or contact Bette Loiselle, TCD Director, 347 Grinter Hall, (352) 273-4706, E-mail Loiselle@latam.ufl.edu or Patricia Sampaio, TCD Program Coordinator, 343 Grinter Hall, (352) 273-4734, Email PSampaio@latam.ufl.edu.

The **Interdisciplinary Concentration in Wetland Sciences (ICWS)** is a unified interdisciplinary program in wetland science and policy for master's and doctoral students.

Graduate faculty from the following academic units contribute to the wetlands sciences concentration: Agricultural and Biological Engineering, Botany, Civil Engineering, Environmental Engineering Sciences, Fisheries and Aquatic Sciences, Forest Resources and Conservation, Geography, Geological Sciences, Landscape Architecture, Law, Soil and Water Sciences, Urban and Regional Planning, Wildlife Ecology and Conservation, and Zoology. Students in any of these programs may elect to participate in the ICWS. A major strength of the ICWS is the breadth of wetlands-related courses and research opportunities in many academic programs across campus. The ICWS exposes students to perspectives outside their disciplines and provides a rigorous, substantive education in wetlands sciences in addition to their disciplinary focus.

Students may complete the ICWS for either the M.S. or Ph.D. degree. A core curriculum (15 credits for M.S. and 18 credits for Ph.D.) provides the opportunity for interdisciplinary training in four broad subject areas:

- wetlands science (1 course each in wetlands ecology, wetland hydrology, and wetlands biogeochemistry),
- wetlands systems,
- wetlands organisms, and
- wetlands policy/law.

Additional course work in a student's disciplinary focus may strengthen the student's knowledge base or allow for specialization in one or more of the areas.

For more information, contact Dr. Mark T. Brown, Director, Howard T. Odum Center for Wetlands, Phelps Lab, P.O. Box 116350, Gainesville FL 32611, Phone (352) 392-2424; or visit the website (<http://www.cfw.ufl.edu>).

Two certificates, one master's degree (thesis or non-thesis option), and a doctoral concentration are offered in women's and gender studies. Participating graduate faculty are from several academic units, campus-wide, including Agricultural and Life Sciences, Anthropology, Counselor Education, English, German and Slavic Studies, History, Journalism and Communications, Latin American Studies, Linguistics, Medicine, Nursing, Philosophy, Psychology, Religion, Romance Languages and Literatures, Sociology, and Teaching and Learning.

The two graduate certificates in women's studies for master's and doctoral students are offered in conjunction with degree programs in other academic units. The Graduate Certificate in Women's Studies and the Graduate Certificate in Gender and Development require specific sets of course work to thoroughly ground students in the discipline. The Graduate Certificate in Women's Studies is a general introduction to the field, and the Graduate Certificate in Gender and Development allows students to focus on issues related to gender, economic development, and globalization.

The doctoral interdisciplinary concentrations in women's and gender studies give graduate students a thorough grounding in the new scholarship produced by the intersection of women's studies and other academic fields. The concentration facilitates analysis and assessment of theories about the role of gender in cultural systems and its intersections with other categories of differences, such as race, ethnicity, religion, class, sexuality, physical and mental ability, age, and economic and civil status. Emphasis is on participating in women's and gender studies research and on providing an intellectual environment for cross-fertilization among disciplines. Women's and gender studies critically explores the role and status of women and men, past and present.

Participating academic units award Ph.D. degrees with an interdisciplinary concentration in women's and gender studies. Study plans are designed by each student's supervisory committee, whose chair is affiliated with women's and gender studies.

Admission requirements are those of the student's home academic unit and college. After admission to the degree-granting academic unit, the application is sent to the Graduate Coordinator of Women's and Gender Studies who chairs an admissions committee.

For more information on the master's degree, contact the Director, Center for Women's Studies and Gender Research, 3324 Turlington Hall.

[†]**Programs** are the students' primary fields of study; a program is the student's **major**. The degree and program name appear on the student's transcript. **Concentrations** are subprograms within a major. The concentration, degree, and program may appear on the student transcript. **Specializations** are informal designations, used by academic units, to indicate areas of research or scholarly strength, and have no formal significance. **Tracks** and **emphases** are similar unofficial terms. No tracks, emphases, or specializations appear in official lists in this catalog or on the student transcript.

Graduate Certificates

For the list of available Graduate Certificates, please visit the Graduate School's website:
<http://graduateschool.ufl.edu/academics/graduate-certificates-list>

For the Graduate Certificate Policy, please visit the Graduate School's website:
<http://graduateschool.ufl.edu/files/certificate-policy.pdf>

For information about the policies governing certificates, please visit the Office of the Provost's website:
<http://www.ua.ufl.edu/certificates>

Academic Assessment Plans

Visit <http://assessment.ua.ufl.edu/graduate-academic-assessment-plans> for the Academic Assessment Plans for each graduate degree program.

University of Florida Graduate School Academic Calendar 2014-2015

Entire Academic Year Calendar

[Graduate School Academic Calendar 2014-2015](#)

Individual Term Calendars

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UF Graduate Courses

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Publication Policy

Publication Policy

The Graduate Catalog is published annually by the University of Florida and has been adopted as a rule of the University pursuant to the provision of Chapter 120 of the Florida Statutes. Published editions of this official record correspond to an academic year and will remain in effect as published from the Fall Term through the following Summer C Term. The Graduate Catalog provides official university rules, policies and regulations; it establishes minimum eligibility requirements for admission and reflects degree requirements; it provides approved calendar and curricular information; and it contains general information about the University community, the University, and its services and facilities.

Updates to the Graduate Catalog

Changes will be made to this academic record to correct errors or omissions. The University is not responsible for information obtained through Internet links from this catalog to other websites. Every effort has been made to ensure the accuracy of information. However, all courses, course descriptions, degree requirements, and fees are subject to change. Updates to the material listed within the Graduate Catalog should be sent to the editors, via an e-mail to gradcatalog@aa.ufl.edu; every effort will be made to ensure the accuracy of the material listed herein.

Graduate School Academic Calendar 2014-2015

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

August 25, Monday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed after 5:00 p.m. on 8/22/14).

August 29, Friday, 11:59 p.m.

Drop/add ends.

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability

September 2014

September 1, Monday, Labor Day

No classes

September 5, Friday, 3:30 p.m.

Fee payment deadline

Residency reclassification deadline for receiving the request and all documents

September 12, Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

September 19, Friday, 5:00 p.m.

Deadline to withdraw with 25% refund (W symbol assigned)

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

Degree application deadline for degree award this term

www.graduateschool.ufl.edu/files/graduation-checklist.pdf

<http://www.isis.ufl.edu/>

October 2014

October 3, Friday, 5:00 p.m.

Last day to submit Transmittal Letter and dissertation for initial review by Graduate School Editorial Office

www.graduateschool.ufl.edu/files/checklist-dissertation.pdf

October 10, Friday

Midpoint of term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

Late degree application deadline for degree award this term

<http://www.registrar.ufl.edu/currents/latedegreeinfo.html>

October 17-18, Friday-Saturday, Homecoming

No classes

November 2014

November 3, Monday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office
graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students

November 11, Tuesday, Veterans Day

No classes

November 24, Monday, 5:00 p.m.

Last day to withdraw (all courses) without failing grades via ISIS
<http://www.registrar.ufl.edu/currents/withdraw.html>

November 26-29, Wednesday-Saturday, Thanksgiving

No classes

December 2014

December 1, Monday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for ETD Signature Pages to be posted to GIMS for thesis and dissertation students

Deadline for thesis and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term
No exceptions can be granted.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>
www.graduateschool.ufl.edu/graduation/checklists

December 10, Wednesday

Classes end.

Deadline for requesting transfer of credit (for spring degree candidates)

December 10, Wednesday, 5:00 p.m.

Deadline for thesis and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term
No exceptions can be granted.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

December 11-12, Thursday-Friday

Examination reading days (no classes)

December 13, Saturday, 15-19, Monday-Friday

Final examinations

December 19, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades via College petition to the Registrar, Room 222 Criser

December 19-20, Friday-Saturday

Commencement Ceremonies+

December 22, Monday, 12:00 noon

Final term grades are due.

December 23, Tuesday

Degree certification

December 24, Wednesday

Unofficial transcripts with grades and remarks available via ISIS

**NOTES: All dates and deadlines are subject to change and will be updated accordingly.
Prospective students should contact the appropriate academic unit for admission application deadlines.**

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

Spring 2015 Calendar

December 2014

December 10, Wednesday, 5:00 p.m.

Deadline for requesting transfer of credit (for spring degree candidates)

January 2015

January 5, Monday, 5:00 p.m.

Registration deadline

Last day for thesis and dissertation students to clear prior to the spring semester with the Graduate School Editorial Office
<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

January 6, Tuesday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed, after 5:00 p.m. on 1/5/14).

January 12, Monday, 11:59 p.m.

Drop/add ends

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability

January 16, Friday, 3:30 p.m.

Fee payment deadline

Residency reclassification deadline for receiving requests and all documents

January 19, Monday, Martin Luther King Jr. Day

No classes

January 23, Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

January 30, Friday, 5:00 p.m.

Degree application deadline for degree award this term

graduateschool.ufl.edu/files/graduation-checklist.pdf
<http://www.isis.ufl.edu/>

Deadline to withdraw with 25% refund (W symbol assigned)

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

February 2015**February 11, Wednesday, 5:00 p.m.**

Last day to submit Transmittal Letter and dissertation for review by Graduate School Editorial Office

graduateschool.ufl.edu/files/checklist-dissertation.pdf

February 13, Friday

Midpoint of term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

Late degree application deadline for degree award this term

February 28-March 7, Saturday-Saturday, Spring Break

No classes

March 2015**March 11, Wednesday, 5:00 p.m.**

Last day to submit successfully defended thesis for review by Graduate School Editorial Office

graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students

April 2015**April 8, Wednesday, 5:00 p.m.**

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for ETD Signature Pages to be posted to GIMS for thesis and dissertation students

Deadline for thesis and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term
No exceptions can be granted.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>
www.graduateschool.ufl.edu/graduation/checklists

April 10, Friday, 5:00 p.m.

Last day to withdraw (all courses) via ISIS without failing grades

<http://www.registrar.ufl.edu/currents/withdraw.html>

April 22, Wednesday

Classes end.

April 22, Wednesday, 5:00 p.m.

Deadline for thesis and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term
No exceptions can be granted.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

Deadline for requesting transfer of credit (for summer degree candidates)

April 23-24, Thursday-Friday

Examination reading days (no classes)

April 24, Friday

Doctoral Degree Commencement Ceremony+

April 25, Saturday; April 27-May 1, Monday-Friday

Final examinations

May 2015

May 1, Friday

Last day to drop a course and receive W on transcript via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades via College petition to the Registrar, Room 222 Criser

May 1-3, Friday-Sunday

Commencement Ceremonies (Non-doctoral)+

May 4, Monday, 12:00 noon

Final term grades are due.

May 5, Tuesday

Degree certification

May 6, Wednesday

Unofficial transcripts with grades and remarks available via ISIS

**NOTES: All dates and deadlines are subject to change and will be updated accordingly.
Prospective students should contact the appropriate academic unit for admission application deadlines.**

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized.
Please do not anticipate exact dates and times until notification is received.

Summer 2015 Calendar

All Summer 2015 graduate-level degrees will be awarded at the end of Summer B/C (August 2015).
Applicants will select Summer B/C 2015 on the degree application menu in ISIS.
The Summer 2015 degree application will be available via ISIS in mid-March 2015.

Students enrolled only in Summer A courses, still apply for the Summer B/C term, since graduate-level degrees are only awarded at the end of the B/C term. No graduate-level degrees are awarded at the end of Summer A (June). No late degree applications will be approved after the B/C deadline (July 1).

graduateschool.ufl.edu/files/graduation-checklist.pdf
<http://www.isis.ufl.edu/>

April 2015

April 22, Wednesday, 5:00 p.m.

Deadline for requesting transfer of credit (for summer degree candidates)

May 2015

May 8, Friday, 5:00 p.m.

Summer A & C registration

Last day for thesis and dissertation students to clear prior to the summer semester with the Graduate School Editorial Office
<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

May 11, Monday

Summer A & C classes start.

Summer A & C drop/add starts.

Summer A & C late registration starts (late fee assessed).

May 12, Tuesday, 11:59 p.m.

Summer A & C late registration ends (late fee assessed).

Summer A & C drop/add ends.

Summer A & C deadline to withdraw with no fee liability

May 20, Wednesday, 5:00 p.m.

Summer A deadline to withdraw with 25% refund (W symbol assigned)
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

Deadline for Summer A courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

May 22, Friday, 3:30 p.m.

Summer A & C fee payment deadline

Summer A & C residency reclassification deadline for receiving the request and all documents

May 25, Monday, Memorial Day observed

No classes

May 29, Friday, 5:00 pm

Summer C deadline to withdraw with 25% refund (W symbol assigned)
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

Deadline for Summer C courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

June 2015**June 12, Friday, 5:00 p.m.**

Last day to withdraw (all courses) via ISIS for Summer A without failing grades
<http://www.registrar.ufl.edu/currents/withdraw.html>

June 15, Monday, 5:00 p.m.

Last day to submit Transmittal Letters and dissertation for initial review by Graduate School Editorial Office
graduateschool.ufl.edu/files/checklist-dissertation.pdf

June 19, Friday

Summer A classes end.

Summer A final examinations during regular class periods

June 19, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript for Summer A term via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades for Summer A term via College petition to the Registrar, Room 222 Criser

June 22, Monday, 12:00 p.m.

Summer A final term grades are due.

June 22-26, Monday-Friday, Summer Break

No classes

June 26, Friday, 5:00 p.m.

Summer B Registration

June 29, Monday

Summer B classes start.

Summer B drop/add starts.

Summer B late registration starts (late fee assessed, after 5:00 p.m. on 6/26/14).

June 30, Tuesday, 11:59 p.m.

Summer B drop/add ends.

Summer B late registration ends (late fee assessed).

Summer B deadline to withdraw with no fee liability

July 2015**July 1, Wednesday**

Summer B/C Degree application deadline—no exceptions will be granted after this date.

<http://graduateschool.ufl.edu/files/graduation-checklist.pdf>

<http://www.isis.ufl.edu/>

Midpoint of Summer term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

July 3, Friday, Independence Day, observed

No classes

July 7, Tuesday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office

graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students.

July 8, Wednesday, 5:00 p.m.

Summer B deadline to withdraw with 25% refund (W symbol assigned):

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Deadline for Summer B courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

July 10, Friday, 3:30 p.m.

Summer B fee payment deadline

Summer B residency reclassification deadline for receiving the request and all documents

July 27, Monday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for ETD Signature Pages to be posted to GIMS for thesis and dissertation students

Deadline for thesis and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term

No exceptions can be granted.

graduateschool.ufl.edu/files/editorial-deadlines.pdf

www.graduateschool.ufl.edu/graduation/checklists

July 31, Friday, 5:00 p.m.

Last day to withdraw (all courses) for Summer B or Summer C via ISIS without failing grades

<http://www.registrar.ufl.edu/currents/withdraw.html>

August 2015

August 4, Tuesday, 5:00 p.m.

Deadline for thesis and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term

No exceptions can be granted.

graduateschool.ufl.edu/files/editorial-deadlines.pdf

August 7, Friday

Summer B and C classes end.

Final examinations are during regular class periods.

August 7, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript for Summer B or Summer C via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades for Summer B or Summer C via College petition to the Registrar, Room 222 Criser

Deadline for requesting transfer of credit (for fall degree candidates)

August 8, Saturday

Commencement+

August 10, Monday, 12:00 noon

Summer B and C final term grades are due.

August 11, Tuesday

Degree certification

August 12, Wednesday

Unofficial transcripts with grades and remarks are available via ISIS.

NOTES: All dates and deadlines are subject to change and will be updated accordingly.

Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

Biology Courses

Biology Department

[College of Liberal Arts and Sciences](#)

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

Complete faculty listing by department: [Follow this link.](#)

The Department of Biology offers two graduate programs: Botany and Zoology. Both programs offer graduate work leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

More information regarding these programs is available by following the links below and by visiting our departmental website: <http://www.biology.ufl.edu>.

BOT 5225C: Plant Anatomy

BOT 5305: Paleobotany

BOT 5505C: Intermediate Plant Physiology

BOT 5625: Plant Geography

BOT 5655C: Physiological Plant Ecology

BOT 5685C: Tropical Botany

BOT 5695C: Ecosystems of Florida

BOT 5725C: Taxonomy of Vascular Plants

BOT 6508C: Proteomics Theory and Practice

BOT 6516: Plant Metabolism

BOT 6566: Plant Growth and Development

BOT 6716C: Advanced Taxonomy

BOT 6726C: Principles of Systematic Biology

BOT 6905: Individual Studies in Botany

BOT 6910: Supervised Research

BOT 6927: Advances in Botany

BOT 6935: Special Topics

BOT 6936: Graduate Student Seminar

BOT 6940: Supervised Teaching

BOT 6943: Internship in College Teaching

BOT 6971: Research for Master's Thesis

BOT 7979: Advanced Research

BOT 7980: Research for Doctoral Dissertation

PCB 5046C: Advanced Ecology

PCB 5307C: Limnology

PCB 5338: Principles of Ecosystem Ecology

PCB 5356: Tropical Ecology

PCB 5415C: Behavioral Ecology

PCB 6049: Seminar in Ecology

PCB 6377C: Physiological Ecology of Vertebrates

PCB 6447C: Community Ecology

PCB 6675C: Evolutionary Biogeography

PCB 6695: Seminar in Evolutionary Biology

ZOO 5115C: Vertebrate Paleontology

ZOO 5486C: Mammalogy

ZOO 6005: Integrative Principles of Zoology I

ZOO 6308: Dynamic Optimization Modeling in Behavioral and Evolutionary Ecology

ZOO 6406: Biology of Sea Turtles

ZOO 6456C: Ichthyology

ZOO 6542: Nutritional Ecology

ZOO 6905: Individual Studies

ZOO 6910: Supervised Research

ZOO 6920: Zoology Colloquium

ZOO 6931: Seminar in Marine Turtle Biology

ZOO 6939: Seminar in Animal Behavior

ZOO 6971: Research for Master's Thesis

ZOO 7979: Advanced Research

ZOO 7980: Research for Doctoral Dissertation

Business Courses - filtered

Warrington College of Business Administration

Dean: Jamie Kraft

Complete faculty listings: [Follow this link.](#)

Graduate degrees offered by the Warrington College of Business Administration are the Doctor of Philosophy with major programs in business administration and in economics; the Master of Arts with major programs in economics, in international business, and in business administration with concentrations in insurance and marketing; the Master of Science with major programs in Information Systems and Operations Management (with a concentration in supply chain management), in finance, in management, in real estate, and in business administration, including concentrations in entrepreneurship, insurance, marketing and retail; the Master of Business Administration; and the Master of Accounting. Fields of concentration and requirements for the M.B.A. are given under [Graduate Degrees](#) of this catalog, as well as admission and degree requirements for the Ph.D., M.A., and M.S. degrees.

Master of Arts: The M.A. degree with a major in international business is designed to provide students with quantitative and application skills to be used in an international business setting. The program provides practical training with a brief study trip to a major international city, where students are required to participate actively in business tours and lectures. The students also have the opportunity to gain credits for the degree by studying at one or more foreign universities for a period of 2 weeks to 8 months.

Master of Science: The M.S. degree with a major in management targets students from nonbusiness backgrounds who would like to gain "core" business knowledge and application skills. Requirements span the traditional business disciplines to produce a sound knowledge base for students seeking a solid business foundation. Students are required to take such courses as accounting, finance, economics, entrepreneurship, management, marketing, organizational behavior, and statistics. Typical positions for graduates include managers, consultants, and analysts.

Doctor of Philosophy: For the Ph.D. in business administration, students must have a concentration in one of the following:

- Accounting
- Information Systems and Operation Management
- Finance
- Insurance
- Management
- Marketing
- Real estate and urban analysis.

Specific requirements for the various departments and specialties are given in the [Graduate Degrees](#) section in this catalog. (Requirements for the Ph.D. degree in economics are described under

the *Economics* section of the catalog.) All candidates for the Ph.D. in business administration must satisfy the following general requirements:

Breadth requirement: All applicants for Ph.D. in the business administration program are expected to have completed prior business-related course work at either the advanced undergraduate or graduate level. Students entering without prior work are required to take a minimum of three graduate courses in at least two fields other than their chosen area of concentration. Most often, the appropriate courses will be found in the M.B.A. first-year core; the particular courses to be taken by a student will be decided in consultation with the student's academic adviser. After a student enters the Ph.D. program, the courses taken to satisfy the breadth requirement must be taken in the College of Business Administration.

Research foundations requirement: All students must complete a six-course research skills sequence that prepares them for scholarly research in their chosen area of concentration. Research foundations are defined as essential methodological tools (e.g., statistics, quantitative analysis) and/or substantive content domains (e.g., psychology, economics) outside the student's major field that are considered essential to conducting high quality research in the chosen field. The specific research skills required by each area of concentration can be found in the field descriptions in this Catalog.

Other requirements include satisfactory completion of graduate course work in the major field of concentration, as well as one or two minor fields designed to add depth to the student's research training. Minors are selected by the student in consultation with his or her advisory committee, and may be within or outside the College of Business Administration. Other requirements for the Ph.D. are given in the [Graduate Degrees](#) section of this catalog.

[Departments and Programs within Warrington College of Business Administration](#)

[Warrington College of Business Courses](#)

GEB 5212: Professional Writing in Business

GEB 5215: Professional Communication in Business

GEB 5217: Executive Communication

GEB 5225: Advanced Business Writing

GEB 5929: Foundations Review

GEB 6229: Professional Communication for Accountants

GEB 6365: International Business

GEB 6368: Globalization and the Business Environment

GEB 6905: Individual Work

GEB 6928: Professional Development Module IV

GEB 6930: Special Topics

GEB 6941: Internship

GEB 6957: International Studies in Business

Fisher School of Accounting

[Warrington College of Business Administration](#)

Director: Gary A. McGill

Graduate Coordinators: Dominique DeSantiago, Stephen Asare

Complete faculty listing by department: [Follow this link.](#)

As a professional school in a major public research university, the Fisher School of Accounting (FSOA) is committed to scholarly research, teaching, and service to advance knowledge and prepare future leaders for business, professional, and academic careers.

The Fisher School of Accounting offers graduate work leading to the Master of Accounting (M.Acc.) degree with a major in accounting, and the Ph.D. degree with a major in business administration and an accounting concentration. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below, or visit our website: <http://warrington.ufl.edu/accounting>

ACG 5005: Financial Accounting

ACG 5065: Financial and Managerial Accounting

ACG 5075: Managerial Accounting

ACG 5226: Advanced Accounting

ACG 5505: Governmental Accounting

ACG 5637: Auditing I

ACG 5647: Auditing II

ACG 5815: Accounting Regulation

ACG 6136: Accounting Theory

ACG 6175: Financial Reporting and Analysis

ACG 6207: Accounting for Risk

ACG 6265: International Accounting and Taxation

ACG 6635: Issues in Audit Practice

ACG 6685: Forensic Accounting

ACG 6691: International Auditing

ACG 6697: Information Systems Assurance

ACG 6905: Individual Work in Accounting

ACG 6935: Special Topics in Accounting

ACG 6940: Supervised Teaching

ACG 7885: Accounting Research I

ACG 7886: Accounting Research II

ACG 7887: Research Analysis in Accounting

ACG 7939: Theoretical Constructs in Accounting

ACG 7979: Advanced Research

ACG 7980: Research for Doctoral Dissertation

TAX 5005: Introduction to Federal Income Taxation

TAX 5025: Federal Income Tax 1

TAX 5027: Federal Income Tax 2

TAX 5065: Tax Professional Research

TAX 6105: Corporate Taxation

TAX 6115: Advanced Corporate Taxation

TAX 6205: Partnership Taxation

TAX 6526: International Taxation

TAX 6726: Executive Tax Planning

TAX 6877: State and Local Taxation

Economics Department

Chair: R. D. Blair

Graduate Coordinator: S. M. Slutsky.

Complete faculty listing: [Follow this link.](#)

The department offers the Master of Arts (thesis and nonthesis option) and Doctor of Philosophy degrees in economics with specializations in econometrics, economic theory, industrial organization, international economics, monetary economics, and public finance.

M.A. requirements: A minimum of 36 credits of course work is required for the M.A. with and without thesis. A maximum of six credits of the research course [ECO 6971](#) may be included for a master's degree with thesis. The following core courses are required: [ECO 7408](#) and [ECO 7404](#) or equivalent, [ECO 7415](#) or equivalent, [ECO 7115](#), and [ECO 7206](#).

Ph.D. requirements: Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) an acceptable score on the GRE, and (c) for nonnative speakers of English, an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

All core courses must be completed in the first year. In addition, students must complete courses in three fields of specializations and pass qualifying examinations in two of those fields.

Complete descriptions of the minimum requirements for the M.A. and Ph.D. degrees are provided elsewhere in this catalog.

ECO 5715: Open Economy Macroeconomics

ECO 6075: Economics/Consumer Education

ECO 6407: Game Theory and Competitive Strategy: Theory and Cases

ECO 6409: Game Theory Applied to Business Decisions

ECO 6716: International Macroeconomics

ECO 6906: Individual Work in Economics

ECO 6910: Supervised Research

ECO 6936: Special Topics

ECO 6940: Supervised Teaching

ECO 6957: International Studies in Economics

ECO 6971: Research for Master's Thesis

ECO 7113: Information Economics

ECO 7115: Microeconomic Theory

ECO 7118: Markets and Institutions

ECO 7119: Information, Incentives, and Agency Theory

ECO 7120: General Equilibrium and Welfare Economics

ECO 7206: Macroeconomic Theory I

ECO 7272: Economic Growth I

ECO 7404: Game Theory for Economists

ECO 7405: Mathematical Economics: Game Theory

ECO 7406: Dynamic Economics: Theory and Applications

ECO 7408: Mathematical Methods and Applications to Economics

ECO 7415: Statistical Methods in Economics

ECO 7424: Econometric Models and Methods

ECO 7426: Econometric Methods I

ECO 7427: Econometric Methods II

ECO 7452: Best Empirical Practices in Economics

ECO 7516: Tax Theory and Public Policy

ECO 7525: Welfare Economics and The Second Best

ECO 7534: Empirical Public Economics I

ECO 7535: Empirical Public Economics II

ECO 7536: Theoretical Public Economics

ECO 7706: Theory of International Trade

ECO 7707: International Economic Relations

ECO 7925: Research Skills Workshop

ECO 7938: Advanced Economics Seminar

ECO 7979: Advanced Research

ECO 7980: Research for Doctoral Dissertation

ECP 5415: Antitrust Policy and Managerial Decisions

ECP 5702: Managerial Economics

ECP 5705: Economics of Business Decisions

ECP 6407: Economics for Managing Information for Electronic Commerce

ECP 6417: Public Policy and Social Control

ECP 6701: Competitive Strategies in Expanding Markets

ECP 6708: Cases in Competitive Strategy

ECP 7407: Theory of Industrial Organization:Product Differentiation and Strategy

ECP 7408: Empirical Industrial Organization

ECP 7418: Economics of Regulation

ECP 7419: Current Research in Regulation

HSA 6436: Health Economics

Finance, Insurance, and Real Estate Department

Chair: Michael D. Ryngaert

Graduate Coordinator: Mahen Nimalendran

Complete faculty listing: [Follow this link.](#)

The Department of Finance, Insurance, and Real Estate offers graduate work leading to the Master of Science degree with major programs in finance and real estate; the Master of Science in Entrepreneurship (M.S.E.); and the Doctor of Philosophy degree in business administration with a concentration in finance, insurance, quantitative analysis, or real estate. Complete descriptions of the minimum requirements for the M.S., M.S.E., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

Finance, Real Estate, and Entrepreneurship are also available as concentrations within the M.B.A. program. For information about the M.B.A. program, please consult that listing in the [Graduate Degrees](#) section.

For more information see the program pages below, and visit our website: <http://warrington.ufl.edu/departments/fire>.

ENT 5275: Family Business Management

ENT 6006: Entrepreneurship

ENT 6008: Entrepreneurial Opportunity

ENT 6016: Venture Analysis

ENT 6116: Business Plan Formation

ENT 6416: Venture Finance

ENT 6506: Social Entrepreneurship

ENT 6616: Creativity in Entrepreneurship

ENT 6905: Individual Work in Entrepreneurship

ENT 6930: Special Topics

ENT 6933: Entrepreneurship Lecture Series

ENT 6946: Entrepreneurial Consulting Project

ENT 6950: Integrated Technology Ventures

ENT 6957: International Studies in Entrepreneurship

FIN 5405: Business Financial Management

FIN 5437: Finance I: Asset Valuation, Risk, and Return

FIN 5439: Finance II: Capital Structure and Risk Management Issues

FIN 6108: Personal Financial Management

FIN 6246: Money and Capital Markets

FIN 6296: Capitalism

FIN 6306: Investment Banking

FIN 6418: International Cash Flow Management

FIN 6425: Corporation Finance

FIN 6427: Measuring and Managing Value

FIN 6429: Financial Decision Making

FIN 6432: Asset Valuation and Corporate Finance

FIN 6434: Private Equity

FIN 6438: Study in Valuation

FIN 6465: Financial Statement Analysis

FIN 6477: Entrepreneurial Finance

FIN 6489: Financial Risk Management

FIN 6496: Mergers & Acquisitions

FIN 6518: Investment Concepts

FIN 6525: Asset Management Project

FIN 6526: Portfolio Theory

FIN 6528: Asset Allocation and Investment Strategy

FIN 6537: Derivative Securities

FIN 6545: Fixed Income Security Valuation

FIN 6547: Interest Rate Risk Management

FIN 6549: Special Topics in Fixed Income Securities

FIN 6575: Emerging Markets Finance I

FIN 6576: Emerging Markets Finance II

FIN 6585: Securities Trading

FIN 6595: Investment Analytics

FIN 6596: Introduction to Computational Methods & Derivative Pricing

FIN 6608: Financial Management of the Multinational Corporation

FIN 6626: International Finance

FIN 6638: International Finance

FIN 6643: Project Analysis in a Global Environment

FIN 6727: Economic Organizations and Markets

FIN 6728: Capitalism and Regulation

FIN 6729: Economics Organizations and Markets

FIN 6785: Investment Banking and Corporate Financial Modeling I

FIN 6786: Investment Banking and Corporate Financial Modeling II

FIN 6905: Individual Work in Finance

FIN 6930: Special Topics in Finance

FIN 6935: Finance Professional Speaker Series

FIN 6936: Special Topics In Investment Finance

FIN 6940: Supervised Teaching

FIN 6957: International Studies in Finance

FIN 6958: International Finance Study Tour

FIN 6971: Research for Master's Thesis

FIN 7446: Financial Theory I

FIN 7447: Financial Theory II

FIN 7808: Corporate Finance

FIN 7809: Investments

FIN 7848: Marketing Microstructure

FIN 7938: Finance Research Workshop

FIN 7979: Advanced Research

FIN 7980: Research for Doctoral Dissertation

GEB 5114: Entrepreneurship and Venture Finance

GEB 5118: New Venture Creation

GEB 6157: Entrepreneurship Experiential Learning Project

GEB 6366: Fundamentals of International Business

GEB 6924: Entrepreneurship Professional Speaker Series

REE 6045: Introduction to Real Estate

REE 6058: Construction Considerations in Real Estate

REE 6105: Real Estate Appraisal

REE 6206: Primary Mortgage Markets and Institutions

REE 6208: Secondary Mortgage Markets and Securitization

REE 6315: Real Estate Market and Transaction Analysis

REE 6395: Investment Property Analysis

REE 6397: Real Estate Securities and Portfolios

REE 6705: Geographic Information Systems and Location Analysis

REE 6737: Real Estate Development

REE 6905: Individual Work in Real Estate

REE 6910: Supervised Research

REE 6930: Special Topics in Real Estate

REE 6935: Real Estate Case Studies

REE 6940: Supervised Teaching

REE 6948: Capstone Seminar and Applied Project

REE 6957: International Studies in Real Estate

REE 7979: Advanced Research

REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Department

[Warrington College of Business Administration](#)

Chair: Haldun Aytug

Graduate Coordinator: Praveen Pathak

Complete faculty listing: [Follow this link.](#)

The primary mission of the Department of Information Systems & Operations Management is a commitment to scholarly research, teaching and service to advance the state of knowledge in information systems and supply chain management and to train future leaders for professional and academic careers.

The Department offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Combined Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/isom>.

ISM 5021: Information Systems in Organizations

ISM 6022: Management Information Systems

ISM 6123: Systems Analysis and Design

ISM 6128: Advanced Business Systems Design and Development I

ISM 6129: Advanced Business Systems Design and Development II

ISM 6215: Business Database Systems I

ISM 6216: Business Database Systems II

ISM 6217: Database Management Systems

ISM 6222: Business Telecom Strategy and Applications I

ISM 6223: Business Telecom Strategy and Applications II

ISM 6224: Business Telecom Strategy and Applications III

ISM 6226: Business Telecom Strategy and Applications

ISM 6236: Business Objects I

ISM 6239: Business Objects II

ISM 6257: Intermediate Business Programming

ISM 6258: Advanced Business Programming

ISM 6259: Business Programming

ISM 6405: Business Intelligence

ISM 6423: Data Analysis for Decision Support

ISM 6485: Electronic Commerce and Logistics

ISM 6486: eCommerce Technologies

ISM 6487: Risks and Controls in eCommerce

ISM 6942: Electronic Commerce Practicum

ISM 7166: Advanced Business Systems Design and Development III

MAN 5501: Management

MAN 5502: Production and Operations Management

MAN 6508: Management of Service Operations

MAN 6511: Production Management Problems

MAN 6528: Principles of Logistics/Transportation Systems

MAN 6573: Purchasing and Materials Management

MAN 6575: Purchasing and Supplier Relationship Management

MAN 6581: Project Management

MAN 6586: Project Management

MAN 6598: Logistics and Distribution Management

MAN 6599: Tactical Logistics Planning

MAN 6617: International Operations/Logistics

MAN 6619: International Logistics

QMB 5303: Managerial Statistics

QMB 5304: Introduction to Managerial Statistics

QMB 5305: Advanced Managerial Statistics

QMB 6358: Statistical Analysis for Managerial Decisions I

QMB 6359: Statistical Analysis for Managerial Decisions II

QMB 6607: Decision Processes Under Uncertainty I

QMB 6616: Business Process Analysis

QMB 6693: Quality Management and Control Systems

QMB 6697: Optimization in Simulation Modeling I

QMB 6755: Managerial Quantitative Analysis I

QMB 6756: Managerial Quantitative Analysis II

QMB 6905: Individual Work in Information Systems and Operations Management

QMB 6910: Supervised Research

QMB 6930: Special Topics in Information Systems and Operations Management

QMB 6940: Supervised Teaching

QMB 6941: Internship

QMB 6957: International Studies in Quantitative Methods

QMB 6971: Research for Master's Thesis

QMB 7931: Special Topics in Information Systems and Operations Management

QMB 7933: Seminar in Information Systems and Operations Management

QMB 7979: Advanced Research

QMB 7980: Research for Doctoral Dissertation

Management Department

[Warrington College of Business Administration](#)

Chair: Robert E. Thomas

Graduate Coordinator: Amir Erez

Complete faculty listing: [Follow this link.](#)

The Management Department offers graduate work leading to a Ph.D. degree with a major in Business Administration and a concentration in Management; a Master of Business Administration degree with a concentration in Management; a Master of Science degree with a major in Management; and a Master of International Business (M.I.B.). Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

The Department participates in combined bachelor's/master's degree programs for the Master of International Business (M.I.B.) and Master of Science (M.S.) with a major in management. The Master of International Business is open to students pursuing a bachelor's degree in a business discipline or minor in business administration. The M.S. with a major in management program is only open to non-business majors. Contact the graduate coordinator for information.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/mgt>.

BUL 5445: Ethical Role of the Manager

BUL 5810: Legal Environment of Business

BUL 5811: Managers and Legal Environment of Business

BUL 5831: Commercial Law

BUL 5832: Commercial Law for Accountants

BUL 6440: Business Ethics and Corporation Social Responsibility

BUL 6441: Business Ethics and Corporate Social Responsibility

BUL 6516: Law of Real Estate Transactions

BUL 6652: Law and Ethics of Corporate Governance

BUL 6656: Law for Entrepreneurs

BUL 6821: Cyberlaw and Ethics

BUL 6841: Employment Law

BUL 6851: International Business Law

BUL 6852: International Business Law

BUL 6891: Legal Aspects of Technology Management

BUL 6905: Individual Work

BUL 6930: Special Topics

ENT 6706: Global Entrepreneurship

MAN 5141: Leadership Skills

MAN 5245: Organizational Behavior

MAN 5246: Organizational Behavior

MAN 5265: Managing Groups and Teams

MAN 6107: Motivation in Organizational Setting

MAN 6128: Management Skills and Personal Development

MAN 6149: Developing Leadership Skills

MAN 6257: Power and Politics in Organizations

MAN 6266: Managing Groups and Teams in Organizations

MAN 6286: Managing Strategic Processes and Change in Organizations

MAN 6296: Designing Effective Organizations

MAN 6321: Human Resource Management

MAN 6331: Compensation in Organizations

MAN 6351: Training and Development in Organizations

MAN 6365: Organizational Staffing

MAN 6366: Organizational Staffing

MAN 6385: Strategic Human Resource Management

MAN 6446: Negotiations

MAN 6447: Art and Science of Negotiation

MAN 6537: Managing Technology in Organizations

MAN 6627: Cross Cultural Negotiation

MAN 6635: International Aspects of Human Resource Management

MAN 6636: Global Strategic Management

MAN 6637: Global Strategic Management

MAN 6721: Business Policy

MAN 6724: Strategic Management

MAN 6905: Individual Work in Management

MAN 6910: Supervised Research

MAN 6930: Special Topics

MAN 6940: Supervised Teaching

MAN 6957: International Studies in Management

MAN 6958: International Study Program

MAN 6973: Project in Lieu of Thesis

MAN 7108: Seminar in Research Concepts and Methods in Management

MAN 7109: Seminar in Motivation and Attitudes

MAN 7146: Seminar in Leadership

MAN 7207: Seminar on Foundations of Organizational Theory

MAN 7208: Seminar in Contemporary Approaches to Organizations

MAN 7267: Seminar on Groups and Teams Research

MAN 7275: Organizational Behavior

MAN 7328: Seminar on Staffing and Selection

MAN 7778: Seminar in Strategic Adaptation to Environment

MAN 7779: Strategic Processes and Structure in Organizations

MAN 7933: Seminar in Management

MAN 7979: Advanced Research**MAN 7980: Research for Doctoral Dissertation****Marketing Department**

Chair: Joseph W. Alba

Graduate Coordinator: Lyle A. Brenner

Complete faculty listing [Follow this link](#)

The Marketing Department at the University of Florida is a recognized leader in the discipline of marketing. For over a decade, our faculty has ranked as one of the most productive and influential in the field. Our faculty is known for conducting provocative, cutting-edge research that contributes both to the scientific understanding and practice of marketing. Our Ph.D. program has produced many leading researchers in the discipline. And the David F. Miller Center for Retailing Education and Research is known as one of the foremost centers for developing the science of retailing.

The Marketing Department offers graduate work leading to the Ph.D. degree in business administration, the M.S. degree in business administration, and a concentration in the Master of Business Administration (M.B.A.) program. Requirements for the M.B.A., M.S., and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/departments/mkt>.

MAR 5805: Problems and Methods in Marketing Management**MAR 5806: Problems and Methods in Marketing Management****MAR 6157: International Marketing****MAR 6158: International Marketing****MAR 6237: The Art and Science of Pricing****MAR 6256: Strategy and Tactics of Pricing****MAR 6335: Building and Managing Brand Equity****MAR 6456: Business-to-Business Marketing****MAR 6508: Customer Analysis****MAR 6646: Marketing Research for Managerial Decision Making****MAR 6648: Marketing Research for Managerial Decision Making****MAR 6722: Web-Based Marketing****MAR 6725: Introduction to Electronic Commerce****MAR 6816: Advanced Marketing Management (MBA)****MAR 6818: Advanced Marketing Management****MAR 6833: Product Development and Management****MAR 6834: Marketing of Science and Technology****MAR 6835: Marketing of Science and Technology****MAR 6837: Consumer-Centered Product Design****MAR 6861: Customer Relationship Management****MAR 6862: Customer Relationship Management****MAR 6905: Individual Work****MAR 6910: Supervised Research****MAR 6930: Special Topics in Marketing**

MAR 6940: Supervised Teaching

MAR 6957: International Studies in Marketing

MAR 6971: Research for Master's Thesis

MAR 6973: Project in Lieu of Thesis

MAR 7507: Perspectives on Consumer Behavior

MAR 7588: Consumer Information Processing and Decision Making

MAR 7589: Judgment and Decision Making

MAR 7626: Multivariate Statistical Methods in Marketing

MAR 7636: Research Methods in Marketing

MAR 7666: Marketing Decision Models

MAR 7786: Marketing Literature

MAR 7925: Workshop in Marketing Research

MAR 7979: Advanced Research

MAR 7980: Research for Doctoral Dissertation

CALS Courses by Department - filtered

College of Agricultural and Life Sciences

Dean: Elaine Turner

Complete faculty listings: [Follow this link.](#)

The College of Agricultural and Life Sciences offers academic programs and grants advanced degrees in 17 departments and the Schools of Forest Resources and Conservation, and Natural Resources and Environment. These academic units are all a part of the Institute of Food and Agricultural Sciences (IFAS). Additional components of IFAS include 16 research centers located throughout the state and cooperative extension offices in each of the 67 counties of the state.

The following courses are offered under the supervision of the office of the dean by an interdisciplinary faculty and deal with material of concern to two or more IFAS academic units. The courses are also open to students of other colleges, with the permission of the course instructor.

For more information, please see our website: <http://cals.ufl.edu>

[Departments and Programs within the College of Agricultural and Life Sciences](#)

[College of Agricultural and Life Sciences Courses](#)

ALS 5106: Food and the Environment

ALS 5364C: Molecular Techniques Laboratory

ALS 5905: Individual Study

ALS 5932: Special Topics

ALS 6046: Grant Writing

ALS 6921: Colloquium on Plant Pests of Regulatory Significance

ALS 6925: Integrated Plant Medicine

ALS 6930: Graduate Seminar

ALS 6931: Plant Medicine Program Seminar

ALS 6942: Principles of Plant Pest Risk Assessment and Management

ALS 6943: Internship in Plant Pest Risk Assessment and Management**BCH 5045: Graduate Survey of Biochemistry****Agricultural and Biological Engineering Department**

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abc.ufl.edu>.

AOM 5334C: Agricultural Chemical Application Technology**AOM 5431: GIS and Remote Sensing in Agriculture and Natural Resources****AOM 5435: Advanced Precision Agriculture****AOM 6905: Individual Work in Agricultural Operations Management****AOM 6932: Special Topics in Agricultural Operations Management****Agricultural Education and Communication Department**

Chair: E. W. Osborne

Graduate Coordinator: B. E. Myers

Complete faculty listing by department: [Follow this link.](#)

The Department of Agricultural Education and Communication offers the degrees of Master of Science and Doctor of Philosophy. Graduate students who obtain a degree in Agricultural Education and Communication will focus their study in one of four areas of specialization. The areas of specialization are agricultural communication, agricultural education, extension education, and leadership development. These degree programs are individually tailored to meet the student's unique needs for professional development. The requirements for each degree are described in the [Graduate Degrees](#) section of the University of Florida Graduate Catalog. More information about our program can be found by following the link below.

AEC 5032: Agricultural Media Writing**AEC 5037: Agricultural Media Production****AEC 5060: Public Opinion and Agricultural and Natural Resource Issues****AEC 5074: Agriculture, Resources, People, and the Environment: A Global Perspective****AEC 5201: Teaching in Colleges of Agricultural and Life Sciences****AEC 5203: Advanced Teaching in Colleges of Agricultural and Life Sciences****AEC 5206: Teaching Methods in Agricultural Education****AEC 5227: Teaching in Agricultural Education Laboratory Facilities****AEC 5302: Professional Skill Development in Agriscience Education I****AEC 5324: Philosophy and Development of Agricultural Education****AEC 5454: Leadership Development for Extension and Community Nonprofit Organizations****AEC 5501: Professional Skill Development in Agriscience Education II****AEC 5541: Communication and Instructional Technologies in Agricultural and Life Sciences****AEC 5544: Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies**

AEC 5545: Special Methods in Teaching Agriculture

AEC 5546: Program Planning in Agricultural Education

AEC 6205: Advanced Curriculum and Teaching Methods

AEC 6210: Designing Educational Programs in Agricultural Settings

AEC 6211: Delivering Educational Programs in Agricultural Settings

AEC 6212: Teacher Education in Agriculture

AEC 6229: Laboratory Instruction: Theory and Practice

AEC 6300: Methodology of Planned Change

AEC 6316: From America to Zimbabwe: An Overview of International Extension Systems

AEC 6321: The Land Grant University and University Governance

AEC 6325: History and Philosophy of Agricultural Education

AEC 6419: Communication and Competencies for Global Leadership

AEC 6426: Development of a Volunteer Leadership Program

AEC 6512: Program Development in Extension Education

AEC 6540: Agricultural and Natural Resources Communications Theory and Strategies

AEC 6543: Teaching and Learning Theory: Applications in Agricultural Education

AEC 6552: Evaluating Programs in Extension Education

AEC 6611: Agricultural and Extension Adult Education

AEC 6704: Extension Administration and Supervision

AEC 6767: Research Strategies in Agricultural Education and Communication

AEC 6905: Problems in Agricultural and Extension Education

AEC 6910: Supervised Research

AEC 6912: Nonthesis Research in Agricultural and Extension Education

AEC 6933: Seminar in Agricultural Education and Communication

AEC 6940: Supervised Teaching

AEC 6945: Practicum in Agricultural Education and Communication

AEC 6947: Experiential Learning in Agricultural Education

AEC 6971: Research for Master's Thesis

AEC 7979: Advanced Research

AEC 7980: Research for Doctoral Dissertation

AGG 5504: Critical and Creative Thinking in Problem Solving and Decision Making

Agronomy Department

Chair: R. A. Gilbert

Graduate Coordinator: L. E. Sollenberger

Complete faculty listing by department: [Follow this link.](#)

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis options) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agricultural and natural ecosystems in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

AGR 5215C: Integrated Field Crop Science

AGR 5230C: Florida Grassland Agroecosystems

AGR 5266C: Field Plot Techniques

AGR 5277C: Tropical Crop Production

AGR 5307: Molecular Genetics for Crop Improvement

AGR 5321C: Genetic Improvement of Plants

AGR 5444: Ecophysiology of Crop Production

AGR 5511: Crop Ecology

AGR 6233: Tropical Grassland Agroecosystems

AGR 6237C: Research Techniques in Forage Evaluation

AGR 6311: Population Genetics

AGR 6322: Advanced Plant Breeding

AGR 6325L: Plant Breeding Techniques

AGR 6353: Cytogenetics

AGR 6422C: Environmental Crop Nutrition

AGR 6442C: Physiology of Agronomic Plants

AGR 6905: Agronomic Problems

AGR 6910: Supervised Research

AGR 6932: Topics in Agronomy

AGR 6933: Graduate Agronomy Seminar

AGR 6940: Supervised Teaching

AGR 6971: Research for Master's Thesis

AGR 7979: Advanced Research

AGR 7980: Research for Doctoral Dissertation

IPM 5305: Principles of Pesticides

PLS 5632C: Integrated Weed Management

PLS 5652: Advanced Weed Science

PLS 6623: Weed Ecology

PLS 6626: Invasive Plant Ecology

PLS 6655: Plant/Herbicide Interaction

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

ANS 5446: Animal Nutrition

ANS 6313: Current Concepts in Reproductive Biology

ANS 6718: Nutritional Physiology of Domestic Animals

ANS 6751: Physiology of Reproduction

PCB 5235: Immunology

PCB 5615: Molecular Evolution and Systematics

STA 6934: Special Topics in Statistics

ZOO 6927: Special Topics in Zoology

Animal Sciences Department

Chair: G. E. Dahl

Graduate Coordinator: G. Adesogan

Complete faculty listing by department: [Follow this link.](#)

Animal Sciences is an academic department of the [College of Agriculture and Life Sciences \(CALS\)](#), a unit of the [Institute of Food and Agricultural Sciences \(IFAS\)](#). Creating new solutions to tomorrow's problems underlies everything we do in the Animal Sciences Program. In the areas of teaching, research, and extension, our faculty integrates the most modern technologies available with personal expertise and attention to the needs of students and our industry. For more information about the Animal Sciences program, please follow the link below.

ANS 5312C: Applied Ruminant Reproductive Management

ANS 5935: Reproductive Biology Seminar and Research Studies

ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research

ANS 6314: Experimental Embryology

ANS 6447: Ruminant Nutrition

ANS 6449: Vitamins

ANS 6452: Principles of Forage Quality Evaluation

ANS 6458: Advanced Methods in Nutrition Technology

ANS 6636: Meat Technology

ANS 6666L: Molecular and Cellular Research Methods

ANS 6702: Lactation Physiology of Farm Animals

ANS 6704: Mammalian Endocrinology

ANS 6705: Muscle Physiology

ANS 6707: Growth Physiology in Farm Animals

ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology

ANS 6715: Gastrointestinal and Feed Microbiology

ANS 6716: Physiology in Farm Animals

ANS 6723: Mineral Nutrition and Metabolism

ANS 6745: Introduction to Statistical Genetics

ANS 6750: Reproductive Physiology in Farm Animals

ANS 6767: Molecular Endocrinology

ANS 6775: Essentials of Livestock Immunology

ANS 6905: Problems in Animal Science

ANS 6910: Supervised Research

ANS 6932: Special Topics in Animal Science

ANS 6933: Graduate Seminar in Animal Science

ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology

ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy

ANS 6940: Supervised Teaching

ANS 6971: Research for Master's Thesis

ANS 7979: Advanced Research

ANS 7980: Research for Doctoral Dissertation

PCB 6816: Thermal Physiology

Entomology and Nematology Department

[College of Agricultural and Life Sciences](#)

Chair: John L. Capinera.

Graduate Coordinator: Heather J. McAuslane.

Complete faculty listing by department: [Follow this link.](#)

The Entomology and Nematology Department offers the Master of Science (thesis and nonthesis options) and Doctor of Philosophy degrees in entomology and nematology with the following specializations: entomology, nematology, and pest management. Minimum requirements for the M.S. and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

The Department also offers a cooperative Doctor of Philosophy degree with Florida A&M University and distance education courses leading to the M.S. degree. Members of the Graduate Faculty include the department resident faculty, faculty located on University of Florida campuses away from Gainesville, scientists with other State of Florida agencies such as the Division of Plant Industry and Florida Department of Agriculture and Consumer Services, and scientists of the U.S. Department of Agriculture. The Graduate Faculty is qualified to direct graduate students in all specialties of entomology, nematology, and acarology.

New graduate students should have backgrounds in biology, chemistry, physics, and mathematics. Minor deficiencies may be made up after entering graduate school.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please see the program page below, and visit our website: <http://entnemdept.ufl.edu>.

ALS 5156: Agricultural Ecology Principles and Applications

ALS 6166: Exotic Species and Biosecurity Issues

ALS 6935: Topics in Biological Invasions

ENY 5006: Graduate Survey of Entomology

ENY 5006L: Graduate Survey of Entomology Laboratory

ENY 5031C: Insect Field Biology

ENY 5151C: Techniques in Insect Systematics

ENY 5160C: Survey of Science with Insects

ENY 5164: Graduate Survey of Invertebrate Field Biology

ENY 5212: Insects and Wildlife

ENY 5223C: Biology and Identification of Urban Pests

ENY 5226C: Principles of Urban Pest Management

ENY 5236: Insect Pest and Vector Management

ENY 5241: Biological Control

ENY 5245: Agricultural Acarology

ENY 5332: Graduate Survey of Urban Vertebrate Pest Management

ENY 5405: Insects as Vectors of Plant Pathogens

ENY 5516: Turf and Ornamental Entomology

ENY 5566: Tropical Entomology

ENY 5567: Tropical Entomology Field Laboratory

ENY 5572: Advanced Apiculture

ENY 5611: Immature Insects

ENY 5820: Insect Molecular Genetics

ENY 6166: Insect Classification

ENY 6203: Insect Ecology

ENY 6203L: Insect Ecology Laboratory

ENY 6248: Termite Biology and Control

ENY 6401: Insect Physiology

ENY 6401L: Insect Physiology Laboratory

ENY 6454: Behavioral Ecology and Systematics of Insects

ENY 6591C: Advanced Mosquito Identification

ENY 6593: Advanced Mosquito Biology

ENY 6651C: Insect Toxicology

ENY 6665: Advanced Medical and Veterinary Entomology I

ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory

ENY 6706: Forensic Entomology

ENY 6706L: Forensic Entomology Laboratory

ENY 6821: Insect Microbiology

ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens

ENY 6905: Problems in Entomology

ENY 6910: Supervised Research

ENY 6931: Entomology Seminar

ENY 6932: Special Topics in Entomology

ENY 6934: Selected Studies in Entomology

ENY 6940: Supervised Teaching

ENY 6942: Insect Diagnostics

ENY 6943: Entomology Internship

ENY 6944: Entomology Extension Internship

ENY 6971: Research for Master's Thesis

ENY 7979: Advanced Research

ENY 7980: Research for Doctoral Dissertation

NEM 5004C: Graduate Survey of Nematology

NEM 5707C: Plant Nematology

NEM 6101C: Nematode Morphology and Anatomy

NEM 6102: Nematode Systematics and Molecular Phylogeny

NEM 6102L: Nematode Systematics and Molecular Phylogeny Laboratory

NEM 6103: Insect Parasitic Nematodes

NEM 6104L: Insect Parasitic Nematodes Laboratory

NEM 6201: Nematode Ecology

NEM 6708: Field Plant Nematology

NEM 6905: Problems in Nematology

NEM 6931: Nematology Seminar

NEM 6932: Special Topics in Nematology

NEM 6934: Selected Studies in Nematology

NEM 6940: Supervised Teaching

NEM 6942: Nematode Diagnostics**NEM 6943: Nematode Internship****NEM 6944: Nematode Extension Internship****NEM 6971: Research for Master's Thesis****NEM 7979: Advanced Research****NEM 7980: Research for Doctoral Dissertation****PMA 5205: Citrus Pest Management****PMA 6228: Field Techniques in Integrated Pest Management****Family, Youth, and Community Sciences Department**

Interim Chair: Tracy Irani

Graduate Coordinator: Larry F. Forthun

Complete faculty listing by department: [Follow this link](#)

The FYCS graduate program is an interdisciplinary applied social science program that prepares students for advanced degrees (e.g., Ph.D.) and careers in such areas as family and youth services, Extension and community-based education, community development and nonprofit management, program planning and evaluation, and social policy. Graduates find careers in both the public and private sectors including:

- Child and Youth Development in areas such as juvenile justice, dropout prevention programs, recreational and camp programs, and youth ministry;
- Community Development Practice in local and regional government, private nonprofit organizations (such as chambers of commerce, local development corporations, and local, national and international foundations) and citizen's groups;
- Nonprofit Organizational Management, such as management of community based, nonprofit organizations;
- Family and Social Services, such as family preservation programs, assistance for abused and neglected children and other public assistance programs; and
- Cooperative Extension Service in such areas as youth development, family and consumer sciences and community development.

Contact the graduate coordinator for more information.

FYC 5008: Personal and Family Tax Planning**FYC 5009: Personal and Family Insurance Planning****FYC 5106: Personal and Family Retirement and Estate Planning****FYC 5935: Personal and Family Financial Planning Capstone****FYC 6020: Principles of Family, Youth, and Community Sciences****FYC 6111: Families and Violence****FYC 6117: Military Families in Community Context****FYC 6131: Ethics for FYCS Practitioners****FYC 6207: Adolescent Problematic Behavior****FYC 6221: Grant Proposals for Community-Based Organizations****FYC 6222: Parenting and Child Relationships****FYC 6223: Promoting Positive Youth Development****FYC 6224: Resilience and Positive Youth Development****FYC 6230: Theories of Youth and Family Development****FYC 6234: Theoretical Approaches to Youth Programming****FYC 6302: Sustainable Community Development**

FYC 6320: Community Development and Civic Engagement

FYC 6330: Theories of Community Development

FYC 6331: Involving Youths in Community Issues

FYC 6412: Historical Foundations of Philanthropy

FYC 6421: Nonprofit Organizations

FYC 6422: Policy Issues and Case Studies in Nonprofit Organizations

FYC 6423: Non-Governmental Organizations

FYC 6424: Fund Raising for Community Nonprofit Organizations

FYC 6425: Risk Management in Nonprofit Organizations

FYC 6620: Program Planning and Evaluation for Human Service Delivery

FYC 6662: Public Policy and Human Resource Development

FYC 6800: Scientific Reasoning and Research Design

FYC 6802: Advanced Research Methods for Family, Youth, and Community Sciences

FYC 6901: Problems in Family, Youth, and Community Sciences

FYC 6912: Nonthesis Project in Family, Youth, and Community Sciences

FYC 6932: Topics, in Family, Youth, and Community Sciences

FYC 6933: Seminar in Human Resource Development

FYC 6934: Professional Internship/Practicum in Family, Youth, and Community Sciences

FYC 6971: Research for Master's Thesis

Food and Resource Economics Department

[College of Agricultural and Life Sciences](#)

Interim Chair: Rodney L. Clouser

Acting Graduate Coordinator: Sherry Larkin

Complete faculty listing by department: [Follow this link](#)

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

The Department participates in programs with the Center for Latin American Studies, the Center for African Studies, the Center for Tropical Agriculture, the School of Natural Resources and Environment, the College of Law, and the Florida Sea Grant College Program.

The Department programs reflects the diversity of Florida's agriculture which has more than fifty major commodities. With over thirty faculty involved in a full range of research, extension, and teaching programs in areas including Agricultural Marketing, International Trade, Policy, Production/Farm Management, International Development, Marine Economics, Natural Resource and Environmental Economics, Community/Regional Development and Labor Economics. In addition to the main campus location, the department has faculty at research centers throughout the state.

Several members of the faculty have garnered international reputations in diverse fields such as trade policy, generic advertising, citrus economics, sugar policy, business retention and expansion, leadership development, consumer attitudes towards genetically modified food, and dairy marketing.

The Department offers a combined bachelor's/master's degree program for the Master of Science and Master of Science with Concentration in Agribusiness. Contact the Graduate Program Office in 1170 McCarty Hall for information.

For more information, please see the program pages below, and see our website: <http://www.fred.ifas.ufl.edu>.

AEB 5167: Economic Analysis in Small Farm Livelihood Systems

AEB 5188: Economics of Agribusiness Decisions

AEB 5326: Agribusiness Financial Management

AEB 5516: Quantitative Methods in Agribusiness Decisions

AEB 5757: Strategic Agribusiness Human Resource Management

AEB 6106: Microeconomic Principles and Analysis

AEB 6139: Strategic Agribusiness Management

AEB 6145: Agricultural Finance

AEB 6183: Agribusiness Risk Management

AEB 6225: Public Policy and the Agribusiness Firm

AEB 6301: Food Wholesale and Retail Marketing

AEB 6363: Agricultural Marketing

AEB 6385: Management Strategies for Agribusiness Firms

AEB 6533: Static and Dynamic Optimization Models in Agriculture

AEB 6553: Elements of Econometrics

AEB 6592: Mathematical Programming for Economic Analysis

AEB 6675: International Agribusiness Marketing

AEB 6815: Science and Research Methodology

AEB 6817: Survey Research Methods for Economists

AEB 6905: Problems in Food and Resource Economics

AEB 6910: Supervised Research

AEB 6921: Workshop in Food and Resource Economics I

AEB 6933: Special Topics

AEB 6934: Workshop in Food and Resource Economics II

AEB 6942: Advanced Applications in Agribusiness Experience

AEB 6971: Research for Master's Thesis

AEB 7108: Microeconomic Theory II

AEB 7174: Economic Coordination and Organizational Behavior in Agribusiness

AEB 7182: Agricultural Risk Analysis and Decision Making

AEB 7184: Production Economics

AEB 7240: Macroeconomic Theory in Open Economies II

AEB 7373: Consumer Demand and Applied Analysis

AEB 7453: Natural Resource and Environmental Economics

AEB 7483: Seminar in Natural Resource and Environmental Economics

AEB 7571: Econometric Methods I

AEB 7572: Econometric Methods II

AEB 7645: Economic Development and Agriculture

AEB 7979: Advanced Research

AEB 7980: Research for Doctoral Dissertation

Food Science and Human Nutrition Department

[College of Agricultural and Life Sciences](#)

Chair: Susan S. Percival

Graduate Coordinators: Harry S. Sitren (M.S. in Food Science and Human Nutrition / Ph.D. in Food Science), James F. Collins (Ph.D. in Nutritional Sciences)

Complete faculty listing by department: [Follow this link.](#)

The Food Science and Human Nutrition Department (FSHN) is one of the world's largest combined academic programs where food science, nutritional sciences, and dietetics are all studied within one department. FSHN has nearly 30 full-time faculty members, 80 graduate assistants, and close to 1,000 undergraduate students. Our programs are accredited by the [Institute of Food Technologists](#) (IFT) and the [Academy of Nutrition and Dietetics](#). After completing undergraduate degrees, our students typically move on to professional employment, further education or training in food or nutrition graduate programs, or on to professional school programs. We have a strong record of excellent placement of our graduate students in industry and professional organization employment positions, as faculty members at colleges and universities, or in postdoctoral training experiences.

Our faculty has trained at institutions from around the world; they have been widely successful in their teaching, research, and extension efforts. Throughout our programs in food science, nutrition, and dietetics, our faculty is recognized nationally and internationally as experts in their respective fields.

The Food Science and Human Nutrition Department offers programs leading to the degrees of Master of Science in Food Science and Human Nutrition, Doctor of Philosophy in Food Science, and Doctor of Philosophy in Nutritional Sciences (offered under the auspices of the [Center for Nutritional Sciences](#)). Minimum requirements for these degrees are located in the Graduate Degrees section of this catalog.

For more information please click the links to the program pages below, or see our website: <http://fshn.ifas.ufl.edu>.

DIE 6241: Advanced Medical Nutrition Therapy

DIE 6242: Advanced Medical Nutrition Therapy II

DIE 6516: Professional Development in Dietetics

DIE 6905: Problems in Dietetics

DIE 6938: Advanced Dietetic Seminar

DIE 6942: Dietetic Internship I

DIE 6944: Dietetic Internship II

DIE 6949: Dietetic Internship in Sports Nutrition

FOS 5126C: Psychophysical Aspects of Foods

FOS 5205: Current Issues in Food Safety and Sanitation

FOS 5225C: Principles in Food Microbiology

FOS 5437C: Food Product Development

FOS 5561C: Citrus Processing Technology

FOS 5645: Functional Foods and Nutraceuticals

FOS 5732: Current Issues in Food Regulations

FOS 6125C: Sensory Evaluation of Food

FOS 6215: Principles of Food Safety

FOS 6216: Food Safety Systems

FOS 6217: Food Safety, Sanitation, and Microbiology

FOS 6226C: Advanced Food Microbiology

FOS 6315C: Advanced Food Chemistry

FOS 6317C: Flavor Chemistry and Technology

FOS 6355C: Instrumental Analysis and Separations

FOS 6428C: Advanced Food Processing

FOS 6455C: Industrial Food Fermentations

FOS 6736: Food Regulations

FOS 6905: Problems in Food Science

FOS 6910: Supervised Research

FOS 6915: Research Planning

FOS 6936: Topics in Food Science

FOS 6938: Food Science Seminar

FOS 6940: Supervised Teaching

FOS 6971: Research for Master's Thesis

FOS 7979: Advanced Research

FOS 7980: Research for Doctoral Dissertation

HUN 5246: Current Issues in Dietary Supplements

HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition

HUN 5447: Nutrition and Immunity

HUN 6245: Advanced Human Nutrition

HUN 6255: Clinical Nutrition

HUN 6301: Nutritional Aspects of Lipid Metabolism

HUN 6305: Nutritional Aspects of Carbohydrates

HUN 6321: Proteins and Amino Acids in Nutrition

HUN 6331: Vitamins in Human Nutrition

HUN 6356: Minerals in Nutrition

HUN 6812C: Analytical Techniques in Nutritional Biochemistry

HUN 6905: Problems in Nutritional Sciences

HUN 6910: Supervised Research

HUN 6936: Topics in Nutritional Sciences

HUN 6938: Nutritional Sciences Seminar

HUN 6939: Advanced Clinical Nutrition

HUN 6940: Supervised Teaching**HUN 6971: Research for Master's Thesis****HUN 7979: Advanced Research****HUN 7980: Research for Doctoral Dissertation****Horticultural Sciences Department**[College of Agricultural and Life Sciences](#)

Chairs : K.M. Folta (Interim Chair, Horticultural Sciences) and W. Mackay (Environmental Horticulture)

Graduate Coordinator: G. A. Moore (Horticultural Sciences) and L. Trenholm (Environmental Horticulture)

Complete faculty listing: [Follow this link.](#)

The Horticultural Sciences Department Graduate Program at the University of Florida has a wide array of opportunities for graduate study.

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

The Horticultural Sciences Department offers a combined bachelor's/master's degree program. Please contact the graduate coordinator for information.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest. Details about the program and how to apply are listed on their website: <http://hos.ufl.edu>.

ALS 5934: Graduate Professional Development Seminar**HOS 5085C: Principles of Postharvest Horticulture****HOS 5115C: Horticultural Plant Morphology and Identification****HOS 5242: Genetics & Breeding of Vegetable Crops****HOS 5306: Molecular Biology of Plant Hormones****HOS 5330: Postharvest Technologies for Horticultural Crops****HOS 5432: Advanced Nutritional Management of Ornamental Crops****HOS 5515C: Greenhouse and Nursery Operations****HOS 5516C: Advanced Production of Greenhouse and Nursery Crops****HOS 5555: Tropical Fruit Production and Research in Florida****HOS 5711: Phytochemicals in Food & Health****HOS 6201: Breeding Perennial Cultivars****HOS 6236: Molecular Marker Assisted Plant Breeding****HOS 6331: Postharvest Biology****HOS 6345: Environmental Physiology****HOS 6412: Nutrition of Horticultural Crops****HOS 6523: Research and Development in Turfgrass Science****HOS 6545: Advanced Citriculture I****HOS 6546: Advanced Citriculture II****HOS 6905: Problems in Horticultural Science**

HOS 6910: Supervised Research

HOS 6931: Horticultural Science Seminar

HOS 6932: Special Topics

HOS 6934: Professional Seminar Preparation

HOS 6940: Supervised Teaching

HOS 6941: Practicum in Horticultural Science

HOS 6971: Research for Master's Thesis

HOS 7979: Advanced Research

HOS 7980: Research for Doctoral Dissertation

ORH 5026C: Advanced Annual and Perennial Gardening

ORH 5086: Advanced Golf and Sports Turf Management

ORH 5282: Orchid Biology and Culture

ORH 5322C: Palm Biology and Culture

ORH 5817C: Advanced Florida Native Landscaping

ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture

PCB 5065: Advanced Genetics

PLS 5222C: Propagation of Horticultural Crops

PLS 5241C: Advanced Plant Micropropagation

PLS 5405: Advanced Composting Technology

Microbiology and Cell Science Department

Chair: E. Triplett.

Graduate Coordinator: Tony Romco.

Complete faculty listing by department: [Follow this link.](#)

Graduate study is offered leading to the Master of Science and Doctor of Philosophy degrees in microbiology and cell science, with emphasis in one or more of the disciplines of biochemistry, cell biology, and microbiology.

Requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog and also at the Department webpage: <http://microcell.ufl.edu/>.

Instruction and guidance are collaborative among faculty in the Colleges of Agricultural and Life Sciences, Liberal Arts and Sciences, and Medicine.

Research spans broad areas in the cellular and molecular aspects of bacterial, plant, and animal life functions: Areas of research include microbial biochemistry, biotechnology; biomass conversion; genetic and metabolic regulation; environmental microbiology; cell biology; molecular biology; molecular genetics; genomics and bioinformatics; immunology; virology; parasitology, host-pathogen interactions; cellular ultrastructure.

Prerequisites for admission to graduate study, in addition to those of the Graduate School, are a broad educational background including mathematics, physics, and chemistry through organic, analytical, and physical chemistry; basic courses in biology, botany, and/or zoology; and at least one course in microbiology and biochemistry. An undergraduate major in biochemistry, physical or chemical science, engineering, or general biology may be an acceptable alternative to a degree in microbiology or cell science. Receipt of an advanced degree requires detailed knowledge in microbiology, biochemistry, and chemistry; undergraduate deficiencies may necessitate additional course work prior to entry into the graduate program.

In addition, the Microbiology and Cell Science Department also offers a combined B.S./M.S. program that allows qualified students to earn both the Bachelor's and Master's degrees with 12 credit hours of jointly counted course work. This program is considered a "4/1" because students may be awarded both degrees within a five-year period. For further information on this program, follow this link: <http://microcell.ufl.edu/graduate-program/combined-degree-program/>.

MCB 5205: Microbiology of Human Pathogens

MCB 5252: Microbiology, Immunology, and Immunotherapeutics

MCB 5305L: Microbial Genetics and Biotechnology Laboratory

MCB 5408: Anaerobic Microbiology and Biotechnology

MCB 5458: Energy Transformation in Microorganisms

MCB 5505: General Virology

MCB 6317: Molecular Biology of Gene Expression

MCB 6318: Comparative Microbial Genomics

MCB 6355: Microbial/Host Defense

MCB 6409: Microbial Cell Structure and Function

MCB 6417: Microbial Metabolism and Energetics

MCB 6457: Metabolic Regulation

MCB 6465: Microbial Metabolic Engineering

MCB 6485: Advanced Techniques in Microbiology and Cell Science

MCB 6772: Advanced Topics in Cell Biology

MCB 6905: Experimental Microbiology

MCB 6910: Supervised Research

MCB 6930: Seminar

MCB 6937: Special Topics in Microbiology

MCB 6940: Supervised Teaching

MCB 6971: Research for Master's Thesis

MCB 7922: Journal Colloquy

MCB 7979: Advanced Research

MCB 7980: Research for Doctoral Dissertation

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Complete faculty listing by department: [Follow this link.](#)

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

PCB 5136L: Techniques in Microbial and Cell Biology

PCB 5530: Plant Molecular Biology and Genomics

PCB 6528: Plant Cell and Developmental Biology

PCB 6910: Supervised Research

PCB 6937: Special Topics in Plant Molecular and Cellular Biology

PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology

PHC 6764: Global Public Health and Development I

Plant Pathology Department

Chair: R. Loria

Graduate Coordinators: J. Jones

Complete faculty listing by department: [Follow this link.](#)

The Department of Plant Pathology offers graduate studies leading to the Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees. The Department also participates in the Doctor of Plant Medicine interdisciplinary professional degree.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

PLP 5005C: General Plant Pathology

PLP 5102: Theory and Practice of Plant Disease Control

PLP 5115C: Citrus Pathology

PLP 5155: Microbiological Control of Plant Diseases and Weeds

PLP 6223C: Viral Pathogens of Plants

PLP 6241C: Bacterial Plant Pathogens

PLP 6262C: Fungal Plant Pathogens

PLP 6291: Plant Disease Diagnosis

PLP 6303: Host-Parasite Interactions II

PLP 6404: Epidemiology of Plant Disease

PLP 6502: Host-Parasite Interactions I

PLP 6621C: Pop Genetics Microbes

PLP 6656C: Fungal Biology

PLP 6905: Problems in Plant Pathology

PLP 6910: Supervised Research

PLP 6921: Colloquium in Principles of Plant Pathology

PLP 6932: Seminar in Plant Pathology

PLP 6940: Supervised Teaching

PLP 6942: Professional Internship in Plant Disease Clinic

PLP 6971: Research for Master's Thesis

PLP 7946: Plant Pathology Internship

PLP 7979: Advanced Research

PLP 7980: Research for Doctoral Dissertation

School of Forest Resources and Conservation

[College of Agricultural and Life Sciences](#)

Director: T. L. White.

Graduate Coordinator: T.V. Stein

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

Joint program: Students may simultaneously earn a juris doctorate from the College of Law and a graduate degree (M.F.R.C., M.S., or Ph.D.) in Forest Resources and Conservation.

Combined programs: The School offers a combined bachelor's/master's degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings of 1 semester. Ph.D. students may pursue a co-major with the Department of Statistics (see below).

Concentration in geomatics: Students completing 15 or more credits with an SUR designation, as part of an SFRC graduate degree, may earn the concentration in geomatics. Geomatics is the collection, analysis, and management of spatial information and includes such fields as surveying, mapping, land tenure, cadastral systems, geographic information systems, and remote sensing

Concentration in ecological restoration: This concentration is available to M.S. non-thesis students. To earn this concentration a student must complete Ecosystem Restoration Principles and Practice and four of the following courses: Ecological Distribution and Management of Invasive Plants, Ecology and Restoration of Invaded Ecosystems, Ecology and Restoration of Longleaf Pine Ecosystem, Watershed Restoration and Management, Natural Resource Policy and Administration, or Agroforestry in the Southeastern US. Ecological restoration seeks to return ecosystems to a close approximation of condition before a disturbance.

Statistics co-major: Ph.D. students with the School may elect the co-major offered jointly with the Department of Statistics. Students focusing on forest genetics, tree improvement, and other statistics-intensive aspects of natural resource management are potential candidates for this option.

Certificates: The School administers the Graduate Certificate in Agroforestry, and SFRC students regularly earn certificates in Geographic Information Systems and in Environmental Education and Communication. Requirements are described under *Interdisciplinary Graduate Certificates and Concentrations* in this catalog

For additional information, please visit the School's web page at <http://sfrc.ufl.edu>.

For details on what terms courses will be offered, please visit <http://sfrc.ufl.edu/gradcourses.html>.

FAS 5203C: Biology of Fishes

FAS 5255C: Diseases of Warmwater Fish

FAS 5276C: Field Ecology of Aquatic Organisms

FAS 5335C: Applied Fisheries Statistics

FAS 5901: Scientific Thinking in Ecology

FAS 6154: Aquatic Invertebrate Ecological Physiology

FAS 6171: Applied Phycology

FAS 6256: Fish and Aquatic Invertebrate Histology

FAS 6272: Marine Ecological Processes

FAS 6337C: Fish Population Dynamics

FAS 6339C: Advanced Quantitative Fisheries Assessment

FAS 6355C: Fisheries Management

FAS 6905: Individual Study

FAS 6910: Supervised Research

FAS 6932: Special Topics in Fisheries and Aquatic Sciences

FAS 6933: Graduate Symposium

FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences

FAS 6940: Supervised Teaching

FAS 6971: Research for Master's Thesis

FAS 7979: Advanced Research

FAS 7980: Research for Doctoral Dissertation

FNR 5072C: Environmental Education Program Development

FNR 5335: Agroforestry

FNR 5462: Spatial Models and Decision Analysis

FNR 5608: Research Planning

FNR 6564: Ecohydrology

FOR 5157: Ecosystem Restoration Principles and Practice

FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems

FOR 5161: Forest Productivity and Health

FOR 5435: Forest Information Systems

FOR 5615: Forest Conservation and Management Policies and Issues

FOR 5625: Forest Water Resources Management

FOR 5756: Non-Timber Forest Products

FOR 6005: Conservation Behavior

FOR 6154: Analysis of Forest Ecosystems

FOR 6156: Simulation Analysis of Forest Ecosystems

FOR 6164: Silviculture: Concepts and Application

FOR 6170: Tropical Forestry

FOR 6172C: Tropical Forestry Field Course

FOR 6215: Fire Paradigms

FOR 6310: Forest Genetics and Tree Improvement

FOR 6340: Physiology of Forest Trees

FOR 6345C: Plant Water Relations Techniques

FOR 6543: Natural Resource Economics and Valuation

FOR 6628: Community Forest Management

FOR 6665: Landscape Planning for Ecotourism

FOR 6905: Research Problems in Forest Resources and Conservation

FOR 6910: Supervised Research

FOR 6933: Seminar

FOR 6934: Topics in Forest Resources and Conservation

FOR 6940: Supervised Teaching

FOR 6971: Research for Master's Thesis

FOR 7979: Advanced Research

FOR 7980: Research for Doctoral Dissertation

GIS 6103: GIS Programming and Customization

GIS 6116: Geographic Information Systems Analysis

PCB 6555: Introduction to Quantitative Genetics

SUR 5365: Digital Mapping

SUR 5385: Remote Sensing Applications

SUR 5386: Image Processing for Remote Sensing

SUR 5391C: Geomatics: Spatial Foundations of GIS

SUR 5425: Cadastral Information Systems

SUR 5525: Least Squares Adjustment Computations

SUR 6375: Terrain Analysis and Mapping

SUR 6395: Topics in Geographic Information Systems

SUR 6427: Land Tenure and Administration

SUR 6535: GPS-INS Integration

SUR 6905: Special Problems in Geomatics

SUR 6934: Topics in Geomatics

School of Natural Resources and Environment

Graduate coordinator: T. Frazer

Complete faculty listing by department: [Follow this link.](#)

The University of Florida School of Natural Resources and Environment offers interdisciplinary coursework in the basic and applied science of ecology, the related social sciences, and sustainability, leading to M.S. and Ph.D. degrees. Choose from about 450 courses, 280 faculty advisors, and 44 participating departments. Research areas of ecology graduate students range across natural resource ecology, environmental policy and management, and sustainable development.

Environmental problems are fundamentally human problems and should be understood in terms of human motivations and actions in a biophysical context. Their solution requires holistic thinking about dynamic ecological systems and the social, economic, and political forces driving human action. To this end, the goal of the Interdisciplinary Ecology graduate program is to provide advanced training in ecosystems thinking and the main theories and methodologies of the biophysical and social sciences to foster integrative approaches to complex real-world problems. Interdisciplinary Ecology students are intensely interested in the sustainability problem, and they welcome the challenge of addressing it through more than one traditional discipline.

EVR 5322: Scientific Processes in Conservation and Development

EVR 5705: Natural Resources and Innovation Systems

EVR 6320: Sustainable Natural Resource Management

EVR 6933: Seminar

EVR 6934: Internship

EVR 6979: Nonthesis Master's Project

PCB 6971: Research for Master's Thesis

PCB 7979: Advanced Research

PCB 7980: Research for Doctoral Dissertation

Soil and Water Science Department

Chair: K. Ramesh Reddy

Graduate Coordinator: Max Teplitski

Complete faculty listing by department: [Follow this link.](#)

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The Department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog

Soil and Water are vital resources in urban, agricultural, and natural ecosystems. The Soil and Water Science Department (SWSD) provides highly visible leadership in teaching, research, and extension/outreach programs as related to improving the productivity of agriculture with environmentally sound management practices, improving water quality, and protection and conservation of natural resources. Our department is one of the few in the nation that offers a comprehensive research and educational programs (molecular to landscape level) involving terrestrial, wetlands and aquatic ecosystems of the landscape. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place-bound students. Our graduates and postdoctoral fellows are well placed at universities, state and federal agencies, and private industry.

The SWSD programs are designed to meet the changing needs of our clientele at state, national and international levels. To meet new challenges and explore new opportunities, the SWSD's research, teaching, and extension programs are focused in five areas, with broader implication to water quality, carbon sequestration, greenhouse gases, and climate change:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

The Department offers graduate level certificates in Biodegradation and Remediation, Sustainable Land Resource and Nutrient Management, Soil Ecosystem Services, and Wetland and Water Resource Management for both on-campus students and via distance education for place bound students (<http://soils.ifas.ufl.edu/academics/degree-certificates.shtml>).

An additional option offered by the Department is a combined bachelor's/master's degree program that permits a B.S in Soil and Water Science or Interdisciplinary Studies – Environmental Management in Agriculture and Natural Resources and M.S. Degree to be completed in five years. Contact the graduate coordinator for more information.

For more information, please see the program page below and our website: <http://soils.ifas.ufl.edu>.

ALS 5027: Reusable Learning Objects

ALS 5155: Global Agroecosystems

SWS 5050: Soils for Environmental Professionals

SWS 5050L: Soils for Environmental Professionals Laboratory

SWS 5115: Environmental Nutrient Management

SWS 5132: Tropical Soil Management

SWS 5182: Earth System Analysis

SWS 5208: Sustainable Agricultural and Urban Land Management

SWS 5224: Environmental Biogeochemistry

SWS 5234: Environmental Soil, Water, and Land Use

SWS 5235: South Florida Ecosystems

SWS 5246: Water Resource Sustainability

SWS 5247: Hydric Soils

SWS 5248: Wetlands and Water Quality

SWS 5305C: Soil Microbial Ecology

SWS 5308: Ecology of Waterborne Pathogens

SWS 5406: Soil and Water Chemistry

SWS 5424C: Soil Chemical Analysis

SWS 5551: Soils, Water, and Public Health

SWS 5605C: Environmental Soil Physics

SWS 5716C: Environmental Pedology

SWS 5721C: GIS in Land Resource Management

SWS 5805: Environmental Soil and Water Monitoring Techniques

SWS 6134: Soil Quality

SWS 6136: Soil Fertility

SWS 6161: Bioavailability of Soil Nutrients

SWS 6262: Soil Contamination and Remediation

SWS 6323: Advanced Microbial Ecology

SWS 6325: Rhizosphere Biochemistry

SWS 6366: Biodegradation and Bioremediation

SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems

SWS 6454: Advanced Soil and Water Chemistry

SWS 6456: Advanced Biogeochemistry

SWS 6464C: Soil Mineralogy

SWS 6622: Vadose Zone Hydrology

SWS 6722: Soil-Landscape Modeling

SWS 6905: Special Problems

SWS 6910: Supervised Research

SWS 6931: Seminar

SWS 6932: Topics in Soils

SWS 6940: Supervised Teaching

SWS 6971: Research for Master's Thesis

SWS 7979: Advanced Research

SWS 7980: Research for Doctoral Dissertation

Wildlife Ecology and Conservation Department

[College of Agricultural and Life Sciences](#)

Chair: Eric C. Hellgren

Graduate Coordinator: Kathryn E. Sieving

Complete faculty listing by department: [Follow this link.](#)

The Department of Wildlife Ecology and Conservation offers Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees in wildlife ecology and conservation. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Program emphases include wildlife biology, ecology, and management; landscape ecology and restoration; human dimensions; tropical and international conservation; and conservation education. Graduate students should have appropriate undergraduate training in the biological, social, and physical sciences including physics, chemistry, and mathematics. Students with inadequate backgrounds may be required to take (without credit at the graduate level) remedial undergraduate courses pertinent to their fields of interest.

For more information, please see our website: <http://www.wec.ufl.edu>.

WS 5496: Research Design in Wildlife Ecology

WS 5521: Plant-Animal Interactions

WS 5555C: Conservation Biology

WS 6444: Advanced Wetlands Ecology

WS 6455: Wildlife Population Ecology

WS 6466: Wildlife Population Modeling

WS 6468C: Pattern and Process in Landscape Ecology

WS 6525: Environmental Interpretation

WS 6543: Wildlife and Agriculture

WS 6544: Administration in Natural Resources

WS 6575: Mammalian Carnivores: Conservation and Management Issues

WS 6578: Human Dimensions of Biological Conservation

WS 6905: Research Problems in Wildlife and Range Sciences

WS 6910: Supervised Research

WS 6933: Seminar

WS 6934: Topics in Wildlife and Range Sciences

WS 6940: Supervised Teaching

WS 6971: Research for Master's Thesis

WS 7979: Advanced Research

WS 7980: Research for Doctoral Dissertation

CLAS Courses - filtered

College of Liberal Arts and Sciences

Interim Dean: David Richardson

Complete faculty listings: [Follow this link.](#)

The College of Liberal Arts and Sciences constitutes the intellectual core of the university. Its principal mission is to lead the academic quest to understand our place in the universe, and to help shape our society and environment.

For more information, please see our website: <http://www.clas.ufl.edu>

[Departments and Programs within the College of Liberal Arts and Sciences](#)

[College of Liberal Arts and Sciences Courses](#)

AFS 5061: Africana Bibliography

AFS 6060: Research Problems in African Studies

AFS 6305: Development Theory and Practice Intro

AFS 6307: Foundations of Economics for Sustainable Development

AFS 6357: Anthropology of Humanitarian Intervention

AFS 6905: Individual Work in African Studies

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Anthropology Department

Chair: S. deFrance

Graduate Coordinator: P. Collings

Complete faculty listing by department: [Follow this link.](#)

The Anthropology Department takes pride in maintaining a holistic perspective, bridging the four traditional fields that have composed the discipline: sociocultural, archaeological, biological, and linguistic anthropology. Both graduate students and faculty conduct research that cut across the four-fields, and extend anthropological investigations into other disciplines.

The graduate program is a mentoring program emphasizing the PhD degree. Students are mentored by faculty advisors, together with supervisory committees chosen by students with the advice of advisors. Graduate students are expected to be in residence to attend classes and seminars, and receive individualized training. Distance-education graduate degrees are not offered. Students formally report on their progress each year, and the progress of each graduate student is evaluated by the faculty in their primary field.

Students receiving graduate degrees are well-prepared intellectually and professionally for success in a wide variety of careers, and become leaders in developing the next generation of anthropology. The department offers teaching experience and resources for presenting conference papers, submitting grant proposals, conducting fieldwork, and other activities appropriate to their professionalization. Graduate students are welcome to contribute to discussions in departmental meetings, and serve on some departmental committees.

ANG 5012: Fantastic Anthropology and Fringe Science

ANG 5085: Collection and Analysis of Visual Data in Anthropology

ANG 5126: Zooarcheology

ANG 5158: Florida Archeology

ANG 5162: Maya Archeoastronomy and Ethnoastronomy

ANG 5164: The Inca and Their Ancestors

ANG 5172: Historical Archeology

ANG 5194: Principles of Archeology

ANG 5255: Rural Peoples in the Modern World

ANG 5265: Methods in Ethnoecology

ANG 5266: Economic Anthropology

ANG 5303: Women and Development

ANG 5310: The North American Indian

ANG 5323: Peoples of Mexico and Central America

ANG 5327: Maya and Aztec Civilizations

ANG 5330: The Tribal Peoples of Lowland South America

ANG 5331: Peoples of the Andes

ANG 5336: The Peoples of Brazil

ANG 5341: Anthropology of the Caribbean

ANG 5352: Peoples of Africa

ANG 5354: Anthropology of Modern Africa

ANG 5395: Visual Anthropology

ANG 5420: Social Network Analysis in Cultural Anthropology

ANG 5426: Kinship and Social Organization

ANG 5464: Culture and Aging

ANG 5485: Research Design in Anthropology

ANG 5486: Computing for Anthropologists

ANG 5488: Geospatial Analysis in Cultural Anthropology

ANG 5525: Human Osteology and Osteometry

ANG 5531: Culture and Nutrition

ANG 5546: Seminar: Human Biology and Behavior

ANG 5620: Language and Culture

ANG 5621: Proseminar in Cultural and Linguistic Anthropology

ANG 5700: Applied Anthropology

ANG 5702: Anthropology and Development

ANG 5711: Culture and International Business

ANG 5743: Human Rights Missions in Forensic Anthropology

ANG 5744: International Forensic Fieldwork in Human Rights

ANG 5824L: Field Sessions in Archeology

ANG 6034: Seminar in Anthropological History and Theory

ANG 6086: Historical Ecology

ANG 6091: Research Strategies in Anthropology

ANG 6110: Archaeological Theory

ANG 6112: Critical Archaeology of Time

ANG 6113: Ideology and Symbolic Approaches in Archaeology

ANG 6120C: Environmental Archaeology

ANG 6122C: Archaeological Ceramics

ANG 6128: Lithic Technology

ANG 6146: Archaeology of Maritime Adaptations

ANG 6155: Southeastern U.S. Prehistory

ANG 6161: Problems in Caribbean Prehistory

ANG 6165: Problems in South American Archaeology

ANG 6183: Laboratory Training in Archeology

ANG 6185: Ethnoarchaeology

ANG 6186: Seminar in Archeology

ANG 6187: Experimental Archaeology

ANG 6190: Seminar in Contemporary Methods

ANG 6191: Archaeology of Death

ANG 6224: Painted Books of Ancient Mexico: Codices of Aztecs, Mixtecs, and Mayas

ANG 6241: Special Topics in Ecology of Religion

ANG 6267: Anthropology, Geographic Information System, and Human Ecosystems

ANG 6273: Legal Anthropology

ANG 6274: Principles of Political Anthropology

ANG 6286: Seminar in Contemporary Theory

ANG 6304: Seminar in Gender and International Development

ANG 6314: Peoples of the Arctic

ANG 6351: Peoples and Culture in Southern Africa

ANG 6360: Ethnicity in China

ANG 6366: Family, Gender, and Population in China

ANG 6407: Sickness and Power

ANG 6421: Landscape, Place, Dwelling

ANG 6452: Race and Racism in Anthropological Theory

ANG 6453: Human Rights in Cross-Cultural Perspective

ANG 6478: Evolution of Culture

ANG 6481: Research Methods in Cognitive Anthropology

ANG 6483L: Anthropology of Science

ANG 6511: Seminar in Physical Anthropology

ANG 6514: Human Origins

ANG 6524: Skeletal Mechanics in Biological Anthropology

ANG 6532: Molecular Genetics of Disease

ANG 6547: Human Adaptation

ANG 6552: Primate Behavior

ANG 6553: Primate Cognition

ANG 6555: Issues in Evolutionary Anthropology

ANG 6583: Primate Functional Morphology

ANG 6591L: Advanced Molecular Anthropology Laboratory

ANG 6592: Seminar in Molecular Anthropology

ANG 6593L: Biological Anthropology Laboratory

ANG 6701: Seminar on Applied Anthropology

ANG 6737: Medical Anthropology

ANG 6740: Advanced Techniques in Forensic Anthropology

ANG 6801: Ethnographic Field Methods

ANG 6905: Individual Work

ANG 6910: Supervised Research

ANG 6915: Research Projects in Social, Cultural, and Applied Anthropology

ANG 6917: Professions of Anthropology

ANG 6930: Special Topics in Anthropology

ANG 6940: Supervised Teaching

ANG 6945: Internship in Anthropology

ANG 6971: Research for Master's Thesis

ANG 7979: Advanced Research

ANG 7980: Research for Doctoral Dissertation

Astronomy Department

Chair: C. Telesco

Graduate Coordinator: V. Sarajedini.

Complete faculty listing by department: [Follow this link.](#)

The University of Florida's Astronomy Department is one of the largest in the country. Research is an integral part of the graduate program. Students have opportunities to work with faculty and staff on a broad range of astronomical problems using in-house, national and international, and ground- and space-based facilities. Support for graduate studies is available through fellowships, research assistantships, and teaching assistantships. For more information on the program, please follow the link below or visit [our website](#).

AST 5113: Solar System Astrophysics I

AST 5114: Solar System Astrophysics II

AST 6112: Solar System Astrophysics

AST 6215: Stellar Structure and Function

AST 6245: Stellar Atmospheres and Radiative Processes

AST 6309: Galactic and Extragalactic Astronomy

AST 6336: Interstellar Matter

AST 6415: Observational Cosmology

AST 6416: Physical Cosmology

AST 6506: Celestial Mechanics

AST 6725C: Observational Techniques**AST 6905: Individual Work****AST 6910: Supervised Research****AST 6925: Departmental Colloquium****AST 6935: Frontiers in Astronomy****AST 6936: Astronomy Journal Club****AST 6971: Research for Master's Thesis****AST 7939: Special Topics****AST 7979: Advanced Research****AST 7980: Research for Doctoral Dissertation****Biology Department**

[College of Liberal Arts and Sciences](#)

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

Complete faculty listing by department: [Follow this link.](#)

The Department of Biology offers two graduate programs: Botany and Zoology. Both programs offer graduate work leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

More information regarding these programs is available by following the links below and by visiting our departmental website: <http://www.biology.ufl.edu>.

BOT 5225C: Plant Anatomy**BOT 5305: Paleobotany****BOT 5505C: Intermediate Plant Physiology****BOT 5625: Plant Geography****BOT 5655C: Physiological Plant Ecology****BOT 5685C: Tropical Botany****BOT 5695C: Ecosystems of Florida****BOT 5725C: Taxonomy of Vascular Plants****BOT 6508C: Proteomics Theory and Practice****BOT 6516: Plant Metabolism****BOT 6566: Plant Growth and Development****BOT 6716C: Advanced Taxonomy****BOT 6726C: Principles of Systematic Biology****BOT 6905: Individual Studies in Botany****BOT 6910: Supervised Research****BOT 6927: Advances in Botany****BOT 6935: Special Topics**

BOT 6936: Graduate Student Seminar

BOT 6940: Supervised Teaching

BOT 6943: Internship in College Teaching

BOT 6971: Research for Master's Thesis

BOT 7979: Advanced Research

BOT 7980: Research for Doctoral Dissertation

PCB 5046C: Advanced Ecology

PCB 5307C: Limnology

PCB 5338: Principles of Ecosystem Ecology

PCB 5356: Tropical Ecology

PCB 5415C: Behavioral Ecology

PCB 6049: Seminar in Ecology

PCB 6377C: Physiological Ecology of Vertebrates

PCB 6447C: Community Ecology

PCB 6675C: Evolutionary Biogeography

PCB 6695: Seminar in Evolutionary Biology

ZOO 5115C: Vertebrate Paleontology

ZOO 5486C: Mammalogy

ZOO 6005: Integrative Principles of Zoology I

ZOO 6308: Dynamic Optimization Modeling in Behavioral and Evolutionary Ecology

ZOO 6406: Biology of Sea Turtles

ZOO 6456C: Ichthyology

ZOO 6542: Nutritional Ecology

ZOO 6905: Individual Studies

ZOO 6910: Supervised Research

ZOO 6920: Zoology Colloquium

ZOO 6931: Seminar in Marine Turtle Biology

ZOO 6939: Seminar in Animal Behavior

ZOO 6971: Research for Master's Thesis

ZOO 7979: Advanced Research

ZOO 7980: Research for Doctoral Dissertation

Chemistry Department

Chair: W. Dolbier

Graduate Coordinator: B. W. Smith

Complete faculty listing: [Follow this link.](#)

The Department of Chemistry granted its first master's degree in 1909 and the first Ph.D. in 1930. Specializations in biochemistry, organic, physical, inorganic and analytical are offered with extensive interdisciplinary research opportunities (e.g., bio/nano-science, particle science, green chemistry, polymer chemistry, chemical physics, health related biochemistry, chemistry-engineering, and genomics).

The Department presently offers the Master of Science and Doctor of Philosophy degrees with a major in chemistry. The non-thesis Master of Science in Teaching degree is also offered with a major in chemistry.

CHM 5224: Basic Principles for Organic Chemistry

CHM 5235: Organic Spectroscopy

CHM 5275: The Organic Chemistry of Polymers

CHM 5305: Chemistry of Biological Molecules

CHM 5413L: Advanced Physical Chemistry Laboratory

CHM 5511: Physical Chemistry of Polymers

CHM 6036: Chemical Biology

CHM 6037: Chemical Biology and Biochemistry Seminar

CHM 6153: Electrochemical Processes

CHM 6154: Chemical Separations

CHM 6155: Spectrochemical Methods

CHM 6158C: Electronics and Instrumentation

CHM 6159: Mass Spectrometric Methods

CHM 6165: Chemometrics

CHM 6180: Special Topics in Analytical Chemistry

CHM 6190: Analytical Chemistry Seminar

CHM 6225: Advanced Principles of Organic Chemistry

CHM 6226: Advanced Synthetic Organic Chemistry

CHM 6227: Topics in Synthetic Organic Chemistry

CHM 6251: Organometallic Compounds

CHM 6271: The Chemistry of High Polymers

CHM 6301: Enzyme Mechanisms

CHM 6302: Chemistry and Biology of Nucleic Acids

CHM 6303: Methods in Computational Biochemistry and Structural Biology

CHM 6306: Special Topics in Biological Chemistry Mechanisms

CHM 6381: Special Topics in Organic Chemistry

CHM 6390: Organic Chemistry Seminar Presentation

CHM 6391: Organic Chemistry Seminar Discussion

CHM 6430: Chemical Thermodynamics

CHM 6461: Statistical Thermodynamics

CHM 6470: Chemical Bonding and Spectra I

CHM 6471: Chemical Bonding and Spectra II

CHM 6480: Elements of Quantum Chemistry

CHM 6490: Theory of Molecular Spectroscopy

CHM 6520: Chemical Physics

CHM 6580: Special Topics in Physical Chemistry

CHM 6586: Computational Chemistry

CHM 6590: Physical Chemistry Seminar

CHM 6620: Advanced Inorganic Chemistry I

CHM 6621: Advanced Inorganic Chemistry II

CHM 6626: Applications of Physical Methods in Inorganic Chemistry

CHM 6628: Chemistry of Solid Materials

CHM 6670: Inorganic Biochemistry

CHM 6680: Special Topics in Inorganic Chemistry

CHM 6690: Inorganic Chemistry Seminar

CHM 6720: Chemical Dynamics

CHM 6905: Individual Problems, Advanced

CHM 6910: Supervised Research

CHM 6934: Advanced Topics in Chemistry

CHM 6935: Chemistry Colloquium

CHM 6943: Internship in College Teaching

CHM 6971: Research for Master's Thesis

CHM 7485: Special Topics in Theory of Atomic and Molecular Structure

CHM 7979: Advanced Research

CHM 7980: Research for Doctoral Dissertation

CHS 5110L: Radiochemistry Laboratory

Classics Department

Chair: Victoria Pagan.

Graduate Coordinator: Jennifer Rea.

Complete faculty listing: [Follow this link.](#)

The department offers the following degrees and programs: the Doctor of Philosophy in classical studies; the Master of Arts degree in classical studies or Latin; the Master of Latin degree,

and the Master of Arts in Teaching degree in Latin. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Within the Ph.D. program are three tracks:

- Philology (prepares students for careers in colleges and universities)
- Classical civilization (available via distance course work)
- Latin and Roman studies (available via distance course work).

Requirements for the philology track of the doctoral degree include:

- 60 credit hours after the M.A. (or a total of 90 credit hours)
- Five additional seminars after the M.A. in classics at the 500 level or higher
- Three of the following seminars: [GRE 6425](#), [GRW 6105](#), [LAT 6425](#), [LNW 6105](#), and [CLA 6805](#)
- A reading knowledge of two modern languages, one of which must be German
- Reading lists in Greek and Roman authors
- Supervised experience in teaching Latin, Greek, or civilization courses is advised
- Successful completion of a series of qualifying examinations appropriate to the chosen specialization (Greek reading; Latin reading; classical Greek literature in its historical context; classical Latin literature in its historical context; special author/topic)
- An oral preliminary examination, dissertation, and final examination

The M.A. degree in classical studies is recommended for students who plan to continue on to the doctoral level. The M.A. degree in Latin is recommended for students who plan to pursue a career in secondary teaching. Both M.A. programs require 30 credit hours, including 6 credits of [GRW 6971](#) or [LNW 6971](#), a thesis, and final examination.

The Master of Latin degree is a non-thesis degree, designed for currently employed and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of classics, and enhance their professional qualifications through a program of summer course work and directed independent study and/or distance learning courses during the regular academic year. The Master of Arts in Teaching, a non-thesis degree, is offered with a program in Latin and is intended for students preparing to teach in community colleges or high schools.

CLA 6125: Augustan Age

CLA 6515: Roman Dynasty: Nero and the Julio-Claudians

CLA 6795: Greek and Roman Archeology

CLA 6805: The Classical Research Tradition

CLA 6885: Roman Law and Society

CLA 6895: Athenian Law and Society

CLA 6905: Individual Work

CLA 6930: Greece and the Near East

CLT 6295: Greek Drama in Translation

GRE 6425: Greek Prose Composition

GRE 6755: Epigraphy

GRK 6905: Individual Work in Modern Greek

GRW 6105: The Greek Tradition

GRW 6216: Greek Novel

GRW 6316: Greek Tragedy

GRW 6317: Ancient Greek Comedy

GRW 6345: Greek Lyric Poetry

GRW 6346: Pindar

GRW 6347: Homer

GRW 6386: Greek Historians

GRW 6506: Plato

GRW 6705: Attic Orators

GRW 6905: Individual Work

GRW 6930: Special Topics in Greek Literature

GRW 6931: Comparative Study of Greek and Latin Literature

GRW 6971: Research for Master's Thesis

GRW 7979: Advanced Research

GRW 7980: Research for Doctoral Dissertation

LAT 6425: Latin Prose Composition

LNW 5325: Roman Elegiac Poetry

LNW 5655: Roman Poets: Horace

LNW 5665: Roman Poets: Vergil

LNW 5675: Roman Poets: Ovid

LNW 5931: Comparative Study of Latin and Greek Literature

LNW 6105: The Roman Tradition

LNW 6225: The Ancient Roman Novel

LNW 6335: Roman Oratory and Rhetoric

LNW 6365: Studies in Roman Satire

LNW 6385: Roman Historians

LNW 6495: Late Latin Literature

LNW 6905: Individual Work

LNW 6933: Special Topics in Latin Literature

LNW 6935: Proseminar in Classics

LNW 6940: Supervised Teaching

LNW 6971: Research for Master's Thesis

LNW 7979: Advanced Research

LNW 7980: Research for Doctoral Dissertation

Computer and Information Science and Engineering Department

[College of Liberal Arts and Sciences](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir.

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, Engineer, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Sociology and Criminology & Law Department

Chair: Barbara Zsembik

Graduate Coordinator: Barbara Zsembik

Complete faculty listing by department: [Follow this link.](#)

The Department of Sociology and Criminology & Law offers several programs of graduate study leading to the Ph.D. in Sociology, the Ph.D. in Criminology, Law and Society, the MA in Sociology, the MA in Criminology, Law and Society, and a Joint MA in Criminology/JD degree. The department also partners with the School of Natural Resources and Environment Department to offer the Ph.D. or MA in Interdisciplinary Ecology. Advanced undergraduate majors may complete a combined BA/MA degree in Sociology or a combined BA/MA degree in Criminology, Law and Society.

CCJ 5934: Contemporary Issues in Criminology and Law

CCJ 6063: Communities and Crime

CCJ 6285: Criminal Justice Process

CCJ 6619: Crime and the Life Course

CCJ 6643: White Collar Crime

CCJ 6658: Drugs, Crime, and Policy

CCJ 6705: Research Methods in Crime, Law, and Justice

CCJ 6708: Research Issues in Crime and Deviance

CCJ 6712: Evaluation Research

CCJ 6905: Independent Study

CCJ 6910: Supervised Research

CCJ 6920: Seminar in Criminological Theory

CCJ 6936: Proseminar in Crime, Law, and Justice

CCJ 6971: Research for Master's Thesis

CCJ 7742: Research Methods in Crime, Law, and Justice II

CCJ 7921: Professional Development in Criminology, Law, and Society

CCJ 7979: Advanced Research

CCJ 7980: Research for Doctoral Dissertation

CJC 6120: Corrections and Public Policy

CJL 6039: Law and Society

CJL 6089: Humanitarian Law

CJL 6090: Law and Social Science

CJL 6091: Anthropology of Law

CJL 6095: Human Rights in Cultural Context

SYA6018: Classical Social Theories

SYA6126: Contemporary Sociological Theory

SYA6305: Methods in Social Research I

SYA6306: Methods in Social Research II

SYA6315: Qualitative Research Methods

SYA6327: Research Problems in Deviance

SYA6407: Quantitative Research Methods

SYA6905: Individual Work

SYA6910: Supervised Research

SYA6942: Applied Social Research Project

SYA6971: Research for Master's Thesis

SYA7933: Special Study in Sociology

SYA7979: Advanced Research

SYA7980: Research for Doctoral Dissertation

SYD 6436: Metropolitan Growth and Development

SYD 6517: Seminar in Environment and Society

SYD 6518: Core Issues in Environmental and Resource Sociology

SYD 6706: Racial and Ethnic Relations

SYD 6707: Black and White Americans: Sociological Perspectives

SYD 6806: Gender and Society

SYD 6807: Sociology of Gender

SYD 6825: Men and Masculinities

SYD 7808: Reproduction and Gender

SYO 6107: American Families

SYO 6126: Family Theories

SYO 6175: Topics in Family Research

SYO 6407: Health Disparities

SYO 6427: Health and Aging

SYO 6535: Social Inequality

SYP 6115: Seminar in Symbolic Interaction

SYP 6517: Theories of Crime and Deviance

SYP 6545: Sociology of Law

SYP 6735: Sociology of Aging and the Life Course

SYP 6736: Sociology of the Aged

SYP 6745: Aging and End-of-Life Issues

English Department

Chair: K. Kidd

Graduate Coordinator: S. I. Dobrin

Complete faculty listing by department: [Follow this link.](#)

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English, along with the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. For more information about our programs, please follow the hyperlinks below or visit our website: <http://www.english.ufl.edu/programs.html>.

AML 6017: Studies in American Literature Before 1900

AML 6027: Studies in 20th-Century American Literature

CRW 6130: Fiction Writing

CRW 6166: Studies in Literary Form

CRW 6331: Verse Writing

CRW 6906: Individual Work

ENC 5236: Advanced Business Writing for Accounting

ENC 6428: Digital English

ENG 6016: Psychological Approaches to Literature

ENG 6075: Literary Theory: Issues

ENG 6076: Literary Theory: Theorists

ENG 6077: Literary Theory: Forms

ENG 6137: The Language of Film

ENG 6138: Studies in the Movies

ENG 6906: Individual Work

ENG 6910: Supervised Research

ENG 6932: Film and Video Production

ENG 6971: Research for Master's Thesis

ENG 7939: Seminar in Variable Topics

ENG 7979: Advanced Research

ENG 7980: Research for Doctoral Dissertation

ENL 6206: Studies in Old English

ENL 6216: Studies in Middle English

ENL 6226: Studies in Renaissance Literature

ENL 6236: Studies in Restoration and 18th-Century Literature

ENL 6246: Studies in Romantic Literature

ENL 6256: Studies in Victorian Literature

ENL 6276: Studies in 20th-Century British Literature

LAE 6940: Supervised Teaching

LAE 6947: Writing Theories & Practices

LIT 5335: Approaches to Children's and Adolescent Literature

LIT 6037: Studies in Verse

LIT 6047: Studies in Drama

LIT 6236: Postcolonial Studies

LIT 6308: Studies in Comics and Animation

LIT 6309: Communications and Popular Culture

LIT 6327: Studies in Folklore

LIT 6357: African-Amer. or African Diaspora Lit./Cultures

LIT 6358: Theoretical Approaches to Black Cultural Studies

LIT 6855: Issues in Cultural Studies

LIT 6856: Cultural Studies: Interventions

LIT 6857: Cultural Studies: Movements

LIT 6934: Variable Topics

SPC 6239: Studies in Rhetorical Theory

Geography Department

Chair: M. W. Binford

Graduate Coordinator: C. J. Matyas

Complete faculty listing by department: [Follow this link.](#)

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

The focus of the Department is in human-environment interactions, with "environment" interpreted very broadly. The Department provides four main areas of specialization for graduate research: economic and cultural geography; resource management and land use and land cover change; medical geography; and physical geography. Economic and cultural geography concerns such topics as spatial economic theory and; housing and care of the elderly. Resource management and land-use and land-cover change focus on agricultural change and resource conservation and development in the tropics and subtropics, and rural and urban land use and land cover change in tropical and temperate regions. Africa and Latin America are the primary areas of regional emphasis outside of the U.S. Physical geography in the Department concentrates on climatology, fluvial geomorphology, and hydrology. Medical geography studies the geographic aspects of human health including disease ecology and transmission and healthcare issues. The Department's extensive geographic information system, remote sensing, and computer cartography teaching and research facilities contribute to and support all of the areas of research. Faculty from the Department are also major participants in the Emerging Pathogens Institute, Florida Climate Institute, Land Use and Environmental Change Institute (L.U.E.C.I.), and the Water Institute. Prospective students should examine the research interests of the Graduate Faculty to obtain a more detailed sense of the Department's specialties (see the departmental website: www.geog.ufl.edu).

To ensure the incorporation of relevant interdisciplinary perspectives in each student's program, the Department maintains close ties with other departments in Liberal Arts and Sciences, and with programs in African studies, Latin American studies, the School of Natural Resources and Environment, the Institute on Aging, urban and regional planning, tropical agriculture, tropical ecology, water resources, the Warrington College of Business Administration, the College of Agricultural and Life Sciences, College of Public Health and Health Professions, and the Hydrological Sciences Academic Cluster. Certificates in certain of these fields may be obtained in addition to graduate degrees in geography. Geography administers the Graduate Certificate in Applied Atmospheric Sciences.

A graduate student should preferably have an undergraduate major in geography, but applicants with degrees in one of the social or physical sciences are accepted into the Department's graduate program. Deficiencies in undergraduate work in geography must be corrected concurrently with registration in graduate level courses. All students in the graduate program are required to take courses in contemporary geographic thought and geographic research skills.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

GEO 6419: Seminar: South America

GEO 6466: Seminar on Geography of Amazonia

GEO 6468: Resource Utilization and Conservation in Latin America

GEO 5305: Environmental Biogeography

GEO 5346: Natural Hazards

GEO 5556: Geography of Innovation and Technological Change

GEO 5605: Advanced Urban Geography

GEO 5809: Geography of World Agriculture

GEO 5905: Individual Study: Directed Reading

GEO 5920: Geography Colloquium

GEO 5945C: Field Course in Geography

GEO 6118: Contemporary Geographic Thought and Research

GEO 6119: Proposal Writing in Geography

GEO 6160: Introduction to Quantitative Methods for Geographers

GEO 6161: Intermediate Quantitative Methods for Geographers

GEO 6166: Advanced Quantitative Methods for Spatial Analysis

GEO 6255: Climatology

GEO 6282: Fluvial Morphology

GEO 6348: Floods Seminar

GEO 6375: Land Change Science Seminar

GEO 6429: Seminar: Cultural Geography

GEO 6435: Seminar in Population

GEO 6451: Medical Geography

GEO 6495: Environment and Behavior

GEO 6905: Individual Work

GEO 6921: How to Survive and Thrive in Academia

GEO 6931: Seminar in Cultural and Political Ecology

GEO 6938: Selected Topics in Geography

GEO 6971: Research for Master's Thesis

GEO 7979: Advanced Research

GEO 7980: Research for Doctoral Dissertation

GEY 6341: Shelter and Care Options for U.S. Elderly

GIS 5008C: Maps and Graphs

GIS 5009C: Advanced Cartography

GIS 5028C: Advanced Aerial Photo Interpretation

GIS 5038C: Remote Sensing

GIS 5107C: Geographic Information Systems in Research

GIS 5306: Geographic Information Systems Applications in Environmental Systems

GIS 5540: Business Geography and New Real Estate Market Analysis

GIS 6104: Spatial Networks

GIS 6425C: GIS Models for Public Health

MET 5504: Weather and Forecasting

MET 6530: Hurricanes

MET 6565: Seminar in Atmospheric Teleconnections

MET 6752: Atmospheric Data Analysis

Geological Sciences Department

Chair: P. A. Mueller.

Graduate Coordinator: J. M. Jaeger.

Complete faculty listing: [Follow this link.](#)

The Department of Geological Sciences is composed of a group of internationally recognized faculty, graduate students, and dedicated support staff. Faculty and students in the Department of Geological Sciences are involved in exciting and groundbreaking research projects throughout the world and in Florida. The Department houses world-class analytical and computing facilities

for research and teaching.

The Department has identified six primary areas of emphasis in its research and teaching programs: environmental geology and hydrology, paleoclimatology, tectonophysics, geochemistry and mineralogy/petrology, marine and coastal geology, and paleomagnetism. For more detailed information on current departmental activities, faculty, and research centers, see <http://web.geology.ufl.edu>. The Department has collaborative, interdisciplinary programs of study and research with the Florida Museum of Natural History, the Center for Wetlands Research, the Land Use and Environmental Change Institute (L.U.E.C.I.), and the hydrological sciences cluster.

ESC 5211: Current Topics in Earth Science for Teachers

GLY 5156: Geologic Evolution of North America

GLY 5245: Hydrogeochemistry

GLY 5246: Geochemistry

GLY 5247: Surface and Ground Water Interactions

GLY 5248: Physical Geochemistry

GLY 5255: Organic Geochemistry and Geobiology

GLY 5328: Advanced Igneous Petrology

GLY 5455: Introduction to Geophysics and Tectonics

GLY 5466: Seismology and Earth Structure

GLY 5468: Terrestrial Gravity and Magnetism

GLY 5476: Environmental Geophysics

GLY 5558C: Sedimentology

GLY 5576: Continental Margin Stratigraphy

GLY 5705: Geomorphology

GLY 5736: Marine Geology

GLY 5786L: Topics in Field Geology

GLY 5827: Ground Water Geology

GLY 6075: Global Climate Change: Past, Present, and Future

GLY 6268C: Isotope Geology

GLY 6297: Topics in Geochemistry

GLY 6425: Tectonics

GLY 6519: Stratigraphy and Timescales

GLY 6620C: Micropaleontology

GLY 6695: Topics in Paleoclimatology

GLY 6826: Hydrogeologic Modeling

GLY 6862: Numerical Methods in Earth Sciences

GLY 6905: Individual Work

GLY 6931: Seminar

GLY 6932: Special Topics in Geology

GLY 6940: Supervised Teaching

GLY 6943: Internship in College Teaching

GLY 6971: Research for Master's Thesis

GLY 7979: Advanced Research

GLY 7980: Research for Doctoral Dissertation

History Department

[College of Liberal Arts and Sciences](#)

Chair: Sean P. Adams

Graduate Coordinator: Elizabeth Dale

The Department of History offers the following graduate degrees: Master of Arts with fields of specialization in African, Asian, European, Latin American, and United States history, and the Doctor of Philosophy with fields of specialization in African, European, Latin American, and United States history. In addition to materials required by the Graduate School for admission, applicants must send directly to the History Department the following evidence of aptitude and interest: Three recommendations, from persons competent to evaluate your potential for graduate work; A 3- to 5-page essay identifying your career goals and particular areas of interest; a sample of your written work in history. Interested students should consult the department web page for more information. □□

AFH 5297: History of African Agriculture

AFH 5348: History of West Africa

AFH 5458: Southern Africa

AFH 5934: Topics in African History

AFH 6259: Seminar in Modern Africa

AFH 6805: Theories and Methods of African History

AFH 6934: Africa

AFH 6936: Readings in African History

AMH 5405: The South to 1860

AMH 5905: Special Studies

AMH 5930: Topics in United States History

AMH 6198: Early American Society

AMH 6199: Nineteenth Century America

AMH 6290: Modern America

AMH 6356: Research in U.S. History

AMH 6406: Readings in Southern History, 1607-1865

AMH 6465: Seminar in U.S. Urban History

AMH 6506: Seminar in American Labor History

AMH 6516: Seminar in American Foreign Relations and Expansion

AMH 6557: Seminar in Constitutional or Legal History of the United States

ASH 5388: Topics in East Asian History

EUH 5195: The Archaeology of the Middle Ages

EUH 5546: Topics in British History

EUH 5934: Topics in European History

EUH 6126: Readings in Medieval History

EUH 6174: Conversion in the Middle Ages

EUH 6175: Ethnicity in the Middle Ages

EUH 6176: Villages and Peasants in the Middle Ages

EUH 6177: Economy and Society in Late Antiquity and the Early Middle Ages

EUH 6213: Europe, 1500-1763

EUH 6289: Readings, Modern Europe

EUH 6469: Modern German History

EUH 6935: Readings, Early Modern Europe

EUH 6937: Readings in Mediterranean History

HIS 5450: Slavery in the New World: Comparative Perspectives

HIS 5484: Science and the Enlightenment

HIS 5485: Special Studies in the History of Science

HIS 6060: Historical Method

HIS 6061: Introduction to Historiography

HIS 6416: Problems in Comparative Legal History

HIS 6445: Postcolonial Theories

HIS 6469: Topics in Historiography of History of Science

HIS 6478: Topics in the Scientific Revolution

HIS 6480: Pre-Newtonian Sciences

HIS 6488: Readings in the History of Science

HIS 6905: Individual Study

HIS 6910: Supervised Research

HIS 6940: Supervised Teaching

HIS 6943: Internship in College Teaching

HIS 6957: Nonthesis Project in History

HIS 6971: Research for Master's Thesis

HIS 7979: Advanced Research

HIS 7980: Research for Doctoral Dissertation

LAH 5438: Modern Mexico

LAH 5475: Caribbean, Nineteenth and Twentieth Centuries

LAH 5476: Caribbean History to 1800: Slavery, Colonization, and International Conflict

LAH 5527: Andean Nations

LAH 5607: History of Amazonia

LAH 5637: Brazil Since 1750

LAH 5933: Topics in Caribbean History

LAH 5934: Topics in Latin American History

LAH 6934: Seminar in Colonial Spanish America

LAH 6936: Seminar in History of Brazil

LAH 6938: Seminar in Modern Spanish America

Department of Languages, Literatures and Cultures

Complete faculty listing by department: [Follow this link.](#)

FLE 6385: Foreign Languages Teaching Methods

FRE 6060: Beginning French for Graduate Students I

FRE 6061: Beginning French for Graduate Students II

FRE 6466: Advanced Translation and Stylistics

FRE 6735: Special Studies in French Linguistics

FRE 6736: The French language in the Americas

FRE 6785: French Phonetics and Phonology

FRE 6827: Sociolinguistics of French

FRE 6845: History of the French Language

FRE 6855: Structure of French

FRE 6856: French in the 21st Century

FRE 6940: Supervised Teaching

FRE 6943: Romance Language Teaching Methods

FRE 6945: Practicum in Advanced College Teaching

FRE 6956: Overseas Studies in French

FRW 6217: Seventeenth-Century French Prose

FRW 6276: Readings in Eighteenth-Century Literature

FRW 6288: Twentieth-Century French Novel

FRW 6315: Seventeenth-Century French Drama

FRW 6328: Twentieth-Century French Theater

FRW 6346: French Poetry of the Renaissance

FRW 6355: Modern French Poetry

FRW 6396: French Cinema

FRW 6416: Later French Medieval Literature

FRW 6536: The Romantic Period

FRW 6556: French Realism and Naturalism

FRW 6715: The Philosophic Movement

FRW 6780: Studies in Francophone Literature and Culture (Excluding the Caribbean and Sub-Saharan Africa)

FRW 6805: Introduction to Graduate Study and Research

FRW 6825: French Critical Theory

FRW 6900: Special Study in French Literature

FRW 6905: Individual Work

FRW 6910: Supervised Research

FRW 6938: Seminar in French Literature

FRW 6971: Research for Master's Thesis

FRW 7979: Advanced Research

FRW 7980: Research for Doctoral Dissertation

GER 6060: Beginning German for Graduate Students I

GER 6061: Beginning German for Graduate Students II

GER 6505: German Culture

GER 6940: Supervised Teaching

GET 6295: Weimar Cinema

GET 6299: New German Cinema and its Legacy

GEW 6205: Foundations of Literary Study

GEW 6266: History of the German Novel

GEW 6305: Studies in German Drama and Theater

GEW 6405: Medieval and Renaissance Literature

GEW 6425: From Luther to Lessing: Early Modern German Literature

GEW 6535: German Classical and Romantic Literature

GEW 6558: Young Germany, Biedermeier, Realism, and Naturalism

GEW 6725: Culture and Society in the Weimar Republic

GEW 6735: Modern German Literature

GEW 6736: Contemporary German Literature

GEW 6745: Literature and Culture in the Third Reich

GEW 6826: German Literary Theory

GEW 6900: Seminar in Germanic Languages and Literatures

GEW 6901: Special Study in Germanic Languages and Literatures

GEW 6905: Independent Study

GEW 6910: Supervised Research

GEW 6971: Research for Master's Thesis

GEW 7979: Advanced Research

GEW 7980: Research for Doctoral Dissertation

Latin American Studies Department

Director: C. D. Deere.

Graduate Coordinator: R. F. Brown.

Complete faculty listing by department: [Follow this link.](#)

The Center for Latin American Studies offers the following graduate programs:

- Latin American Studies
- Sustainable Development Practice

FOT 6940: Translation Studies Practicum

LAS 6008: Ecological Principles

LAS 6220: Issues and Perspectives in Latin American Studies

LAS 6290: Tropical Conservation and Development

LAS 6291: Conservation and Development Skills

LAS 6292: Tropical Conservation and Development Research Methods

LAS 6293: Design and Methods of Research in Latin American Studies

LAS 6295: Latin American Business Environment

LAS 6296: Latin American Business Topics

LAS 6905: Individual Work

LAS 6938: Seminar in Modern Latin American Studies

LAS 6940: Tropical Conservation and Development Practicum

LAS 6943: Development Theory and Practice in Latin America

LAS 6971: Research for Master's Thesis

Linguistics Department

Chair: F. McLaughlin

Graduate Coordinator: E. Potsdam

Complete faculty listing by department: [Follow this link](#)

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For detailed information on the program, please visit the link below. For further information on the program, including financial aid, please visit <http://lin.ufl.edu>.

EAP 5835: Academic Spoken English I

EAP 5836: Academic Spoken English II

EAP 5837: Academic Spoken English Tutorial

EAP 5845: Academic Writing

EAP 5846: Research and Technical Writing

EAP 5937: Special Topics in Academic Spoken English

LIN 5657: Gender and Language

LIN 5741: Applied English Grammar

LIN 6084: Introduction to Graduate Research

LIN 6165: Field Methods

LIN 6208: Phonetics for Linguists

LIN 6226: Advanced Phonetics

LIN 6323: Phonology

LIN 6341: Issues in Phonology

LIN 6402: Morphology

LIN 6410: Issues in Morphology

LIN 6501: Syntax

LIN 6520: Issues in Syntax

LIN 6571: Structure of Specific Language

LIN 6601: Sociolinguistics

LIN 6622: Bilingualism

LIN 6707: Psycholinguistics

LIN 6708C: Methods in Psycholinguistics

LIN 6720: Second Language Acquisition

LIN 6773: Topics in Computational Linguistics

LIN 6796: Cognitive Neuroscience of Language

LIN 6804: Semantics I

LIN 6826: Introduction to Formal Pragmatics

LIN 6856: Semantics II

LIN 6905: Individual Study

LIN 6910: Supervised Research

LIN 6932: Special Topics

LIN 6940: Supervised Teaching

LIN 6971: Research for Master's Thesis

LIN 7118: History of Linguistics

LIN 7641: Seminar in Language Variation

LIN 7725: Topics in Second Language Acquisition

LIN 7885: Discourse Analysis and Pragmatics

LIN 7979: Advanced Research

LIN 7980: Research for Doctoral Dissertation

TSL 6171: TESL I: Materials and Techniques

TSL 6172: TESL II: Materials for Special Purposes

Mathematics Department

Chair: D. Cenzler

Graduate Coordinator: J. A. Larson

Complete faculty listing [Follow this link](#).

The Department of Mathematics offers the degrees of Doctor of Philosophy, Master of Science and Master of Arts, and the Master of Arts in Teaching and Master of Science in Teaching, each with a major in mathematics. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

Interdisciplinary Programs — The Department offers a co-major program in conjunction with the Statistics Department leading to the Doctor of Philosophy degree in mathematics and statistics. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Statistics, Industrial and Systems Engineering, and Finance, Insurance, and Real Estate Departments.

Combined Program — The Department has an accelerated bachelor's/master's program designed for superior undergraduate students who have the ability to pursue such a plan of study leading to the Master of Science or Master of Arts degree. The main feature of the program is that up to 12 semester hours of approved graduate level mathematics courses may be used as dual credit for both the undergraduate and the graduate degree. All other requirements for both the bachelor's degree and the master's degree must be met. For admission requirements for this program, see the undergraduate coordinator.

There are opportunities for concentrated study in a number of specific areas of pure and applied mathematics at both the master's and doctoral levels. The faculty directs studies and research in algebra, number theory, analysis, geometry, topology, logic, differential equations, dynamical systems, probability theory, numerical analysis, numerical optimization, approximation theory, combinatorial analysis, graph theory, computer applications, biomathematics, mathematical physics, inverse problems, and medical imaging. In addition to the requirements of the Graduate School, the minimum prerequisite for admission to the program of graduate studies in mathematics is the completion, with an average grade of B or better, of at least 24 credits of undergraduate mathematics, including a full year of calculus and three semesters of appropriate work beyond the calculus. The most appropriate courses for this purpose are advanced calculus, linear algebra and abstract algebra. Students lacking part of the requirements will be required to make up the deficiency early in their graduate work. Prerequisites to individual courses should be determined before registration by consultation with the instructor concerned. Some of the courses listed are offered only as needed. Since times of offering courses are estimated a year in advance, certain changes may be made if needs are known by the Department. The courses [MAA 5228](#), [MAA 5229](#), [MAS 5311](#), and [MAS 5312](#) are required for all advanced degree programs in mathematics. The requirements for the master's degree nontesis option include a minimum of 32 semester hours of course work. Students pursuing the master's degree in mathematics must pass two comprehensive written examinations, one in algebra and one in analysis. Students pursuing the master's degree with a specialization in applied mathematics have two options: the examination option requires passage of the algebra and analysis examinations; the thesis option requires instead the preparation and oral defense of a thesis on original research conducted under the supervision of a faculty adviser. Students pursuing the Master of Arts in Teaching or the Master of Science in Teaching degree must prepare a teaching portfolio and pass an oral examination. Each of these programs normally requires two years for completion. The requirements for a doctoral degree include 36 hours of 6000-level course work in mathematics; no hours of teaching, colloquium, dissertation, or individual work will count toward this requirement. To become a candidate for the doctoral degree, the student must pass a comprehensive preliminary examination with written and oral components administered by the Department. The doctoral student must also pass a reading knowledge examination in one of the following foreign languages: French, German, or Russian. The dissertation is an important requirement for the doctoral degree in mathematics. The topic for the dissertation may be chosen from a number of areas of current research in pure and applied mathematics. Every graduate student is expected to attend the regular colloquium. Details concerning all requirements for graduate degrees in mathematics may be obtained by writing the Mathematics Department Graduate Selection Committee or consulting the Department website, <http://www.math.ufl.edu>.

MAA 5104: Advanced Calculus for Engineers and Physical Scientists I

MAA 5105: Advanced Calculus for Engineers and Physical Scientists II

MAA 5228: Modern Analysis I

MAA 5229: Modern Analysis II

MAA 5404: Introduction to Complex Variables for Engineers and Physical Scientists

MAA 6236: Mathematical Analysis for Statisticians

MAA 6406: Complex Analysis I

MAA 6407: Complex Analysis II

MAA 6616: Analysis I

MAA 6617: Analysis II

MAA 7526: Advanced Topics in Functional Analysis I

MAA 7527: Advanced Topics in Functional Analysis II

MAD 6206: Combinatorial Theory I

MAD 6207: Combinatorial Theory II

MAD 6406: Numerical Linear Algebra

MAD 6407: Numerical Analysis

MAD 7396: Topics in Combinatorial Theory I

MAD 7397: Topics in Combinatorial Theory II

MAE 6940: Supervised Teaching

MAE 6943: Internship in College Teaching

MAP 5304: Intermediate Differential Equations for Engineers and Physical Scientists

MAP 5345: Introduction to Partial Differential Equations

MAP 5489: Modeling in Mathematical Biology

MAP 6208: Numerical Optimization

MAP 6327: Applied Differential Equations I

MAP 6356: Partial Differential Equations I

MAP 6357: Partial Differential Equations II

MAP 6375: Numerical Partial Differential Equations

MAP 6376: Finite Element Method

MAP 6467: Stochastic Differential Equations and Filtering Theory I

MAP 6468: Stochastic Differential Equations and Filtering Theory II

MAP 6472: Probability and Potential Theory I

MAP 6473: Probability and Potential Theory II

MAP 6487: Biomathematics Seminar I

MAP 6488: Biomathematics Seminar II

MAP 6505: Mathematical Methods of Physics and Engineering

MAP 6506: Mathematical Methods of Physics and Engineering II

MAP 6941: Internship in Applied Mathematics

MAP 7436: Seminar in Applied Mathematics I

MAP 7437: Seminar in Applied Mathematics II

MAS 5311: Introductory Algebra I

MAS 5312: Introductory Algebra II

MAS 6331: Algebra I

MAS 6332: Algebra II

MAS 7215: Theory of Numbers I

MAS 7216: Theory of Numbers II

MAS 7396: Advanced Topics in Algebra I

MAS 7397: Topics in Algebra II

MAT 6905: Individual Work

MAT 6910: Supervised Research

MAT 6932: Special Topics in Mathematics

MAT 6971: Research for Master's Thesis

MAT 7979: Advanced Research

MAT 7980: Research for Doctoral Dissertation

MHF 5107: Introduction to Set Theory

MHF 5207: Foundations of Mathematics

MHF 6306: Mathematical Logic I

MHF 6307: Mathematical Logic II

MTG 5316: Introduction to Topology I

MTG 5317: Introduction to Topology II

MTG 5411: Introduction to Fractal Geometry

MTG 5412: Introduction to Dynamical Systems and Chaos

MTG 6256: Differential Geometry I

MTG 6257: Differential Geometry II

MTG 6346: Topology I

MTG 6347: Topology II

MTG 6401: Ergodic Theory and Dynamical Systems I

MTG 6402: Ergodic Theory and Dynamical Systems II

MTG 7396: Advanced Topics in Topology I**MTG 7397: Advanced Topics in Topology II****Philosophy Department**

Chair: G. Witmer.

Graduate Coordinator: C. Liu.

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Arts and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog.

Admission to the program requires a bachelor's degree in philosophy or sufficient course work in philosophy, as determined by the department. Applicants are evaluated on the basis of academic achievement, GRE scores, three letters of recommendation, a statement of purpose, and a sample essay in philosophy. Students may be admitted as for a terminal M.A. degree or for the Ph.D. Program.

The M.A. degree requires two years (36 hours) of course work. All graduate students take foundational courses in their first four semesters: the graduate Proseminar (PHI [PHI 5935](#)), Graduate Logic (PHI [5135](#)), a course in Ancient Philosophy (PHP [5005](#) or PHP [5015](#)), a course in Modern Philosophy (PHI [5405](#) or PHH [5406](#)), and either Foundations of Analytic Philosophy (PHP [5785](#)) or Epistemology (PHI [5365](#)).

The Ph.D. requires 90 credit hours, which may include 36 used as credit for the M.A. In addition to the foundational courses required for the M.A., the Ph.D. requires Ethical Theory (PHI [5665](#)) and both of PHP [5785](#) and PHI [5365](#). It also requires six courses at the advanced 6000-level, 3 proposal research hours and 12 doctoral research hours, and of course the successful completion and defense of a dissertation.

Further information about the department's programs and admissions can be obtained on the department's website web.phil.ufl.edu or by contacting the Graduate Coordinator, 330 Griffin-Floyd Hall, (352)392-2084 or gradcoord@phil.ufl.edu.

PHH 5405: Modern Philosophy I**PHH 5406: Modern Philosophy II****PHH 5605: Studies in Continental Philosophy****PHH 6105: Seminar in Ancient Philosophy****PHH 6425: Seminar in Modern Philosophy****PHI 5135: Graduate Logic****PHI 5225: Philosophy of Language****PHI 5325: Philosophy of Mind****PHI 5365: Epistemology****PHI 5405: Philosophy of Science****PHI 5425: Philosophy of Social Science****PHI 5505: Metaphysics****PHI 5665: Ethical Theory****PHI 5905: Individual Work****PHI 5934: Topics in Philosophy****PHI 5935: Proseminar****PHI 6105: Seminar in Logic****PHI 6226: Seminar in Philosophy of Language****PHI 6306: Seminar in Epistemology****PHI 6326: Seminar in Philosophy of Mind****PHI 6406: Seminar in Philosophy of Science**

PHI 6506: Seminar in Metaphysics

PHI 6667: Seminar in Ethics

PHI 6787: Seminar in Continental Philosophy

PHI 6905: Individual Work

PHI 6910: Supervised Research

PHI 6934: Special Topics

PHI 6940: Supervised Teaching

PHI 6971: Research for Master's Thesis

PHI 7979: Advanced Research

PHI 7980: Research for Doctoral Dissertation

PHP 5005: Ancient Philosophy I

PHP 5015: Ancient Philosophy II

PHP 5785: Foundations of Analytic Philosophy

PHP 6415: Seminar in Kant

PHP 6795: Seminar in Analytic Philosophy

PHP 6930: Seminar in a School or Thinker

Physics Department

[College of Liberal Arts and Sciences](#)

Chair: Kevin Ingersent

Graduate Coordinator: Guido Mueller

Complete faculty listings: [Follow this link](#).

The Department of Physics offers the Master of Science (thesis or nonthesis) and the Doctor of Philosophy degrees. The nonthesis Master of Science in Teaching is also offered. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Areas of specialization for graduate research include astrophysics and cosmology, atomic and molecular physics, biological physics, chemical physics, condensed matter physics (theory and experiment), nuclear physics, particle physics (theory and experiment), statistical physics, and low temperature physics.

Special interdisciplinary research programs include the Institute for Fundamental Theory (carried out jointly with the Department of Mathematics), the Institute for Theoretical and Computational Studies in Molecular and Materials Science (carried out jointly with the Department of Chemistry), the Institute of High Energy and Particle Astrophysics, and Microfabritech (jointly with the College of Engineering). A curriculum is offered by the Center for Chemical Physics for students interested in research related to chemistry or chemical engineering. The Center for Condensed Matter Sciences provides opportunities for investigations in a diverse range of subjects and fields, including the Microkelvin Research Laboratory. The University of Florida operates the National High Magnetic Field Laboratory jointly with Florida State University and Los Alamos National Laboratory.

The core curriculum is designed to provide a thorough foundation for all physics graduate students. It consists of [PHY 6246](#), [PHY 6346](#), [PHY 6347](#), [PHY 6536](#), [PHY 6645](#), and [PHY 6646](#). Doctoral students must achieve a 3.30 GPA in the core curriculum. All students must pass a preliminary examination at the undergraduate level. All degree candidates are required, as part of their graduate education, to participate continuously in the research and/or teaching programs of the Department.

For more information, please see the program page below, and visit our website: <http://www.phys.ufl.edu>.

PHY 5277: Physics of Accident Reconstruction and Biomechanics

PHY 5905: Individual Work

PHY 6246: Classical Mechanics

PHY 6346: Electromagnetic Theory I

PHY 6347: Electromagnetic Theory II

PHY 6536: Statistical Mechanics I

PHY 6555C: Cryogenics

PHY 6645: Quantum Mechanics I

PHY 6646: Quantum Mechanics II

PHY 6648: Quantum Field Theory I

PHY 6905: Individual Work

PHY 6910: Supervised Research

PHY 6920: Departmental Colloquium

PHY 6932: Seminar in Molecular and Computational Physics

PHY 6943: Internship in College Teaching

PHY 6971: Research for Master's Thesis

PHY 7097: Advanced Topics in Theoretical Physics

PHY 7669: Quantum Field Theory II

PHY 7939: Special Topics

PHY 7979: Advanced Research

PHY 7980: Research for Doctoral Dissertation

PHZ 5155C: Physical Modeling and Simulation

PHZ 5245: Introduction to Magnetic Resonance

PHZ 5354: Introduction to Particle Physics

PHZ 5405: Introduction to Solid-State Physics

PHZ 6156: Computer Methods in Physics

PHZ 6166: Qualitative Methods of Theoretical Physics

PHZ 6355: Elementary Particle Physics I

PHZ 6358: Standard Model of Elementary Particles I

PHZ 6391: Seminar in Astrophysics

PHZ 6392: Seminar in Particle Physics

PHZ 6426: Solid State I

PHZ 6493: Seminar in Condensed Matter Physics

PHZ 6607: Special and General Relativity

PHZ 7357: Elementary Particle Physics II

PHZ 7359: Standard Model of Elementary Particles II

PHZ 7427: Solid State II

PHZ 7428: Modern Condensed Matter Physics

PHZ 7429: Phases of Condensed Matter

PHZ 7608: Special and General Relativity II

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Plant Molecular and Cellular Biology (PMB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Political Science Department

Chair: Ido Oren

Graduate Coordinator: Daniel Smith

Complete faculty listing: [Follow this link](#).

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) or follow the hyperlinks below to more information about the specific programs offered.

CPO 5935: Advanced Topics in Comparative Politics

CPO 6046: Politics in Advanced Industrial Societies

CPO 6059: Democracy and Its Competitors

CPO 6077: Social Movements in Comparative Perspective

CPO 6091: Introduction to Comparative Political Analysis

CPO 6206: Seminar in African Politics

CPO 6307: Latin American Politics I

CPO 6732: Democratization and Regime Transition

CPO 6736: Post-Communist politics

CPO 6756: Comparative Elections and Party Systems

CPO 6757: The European Union In Comparative Perspective

CPO 6786: Peasant Politics and Society

CPO 6795: Environmental Politics

CPO 6796: Water Politics

INR 5935: Advanced Topics in International Relations

INR 6036: Globalization, Regionalism, and Governance

INR 6039: International Political Economy

INR 6208: Advanced International Relations Theory

INR 6213: Seminar: Politics of the European Union

INR 6249: Inter-American Relations

INR 6305: Politics of American Foreign Policy Making

INR 6337: Survey of International Security

INR 6352: International Environmental Relations

INR 6507: International Organization

INR 6607: International Relations Theory

INR 6936: Seminar in Transnational and Global Studies

INR 6938: Seminar in Culture and World Politics

PAD 5935: Advanced Topics in Public Administration

PAD 6108: Public Administration Theory

PAD 6227: Public Budgeting and Finance

PAD 6434: Leadership and Ethics in Public Agencies

PAD 6946: Internship in Government

POS 5935: Advanced Topics in Political Science

POS 6045: Seminar in American Politics

POS 6048: American Political Development

POS 6127: State Government and Politics

POS 6146: Urban Politics

POS 6157: Community Analysis

POS 6196: Patrons, Clients, Corruption, and Accountability

POS 6207: Political Behavior

POS 6208: Empirical Political Research

POS 6272: Political Participation

POS 6274: Political Campaigning

POS 6278: Advanced Campaign Strategy

POS 6279: The Politics of Direct Democracy

POS 6292: Religion and Politics

POS 6427: Legislative Process

POS 6453: Political Parties and Interest Groups

POS 6458: Politics of Campaign Finance

POS 6476: Bureaucratic Politics in the U.S.

POS 6707: Qualitative Research Methods for Political Science

POS 6712: Empirical Theories of Politics

POS 6716: Scope and Epistemologies of Political Science

POS 6736: The Conduct of Inquiry

POS 6737: Political Data Analysis

POS 6747: Topics in Political Research Methodology

POS 6757: Survey Research

POS 6909: Individual Work

POS 6910: Supervised Research

POS 6933: Special Topics

POS 6940: Supervised Teaching

POS 6971: Research for Master's Thesis

POS 7979: Advanced Research

POS 7980: Research for Doctoral Dissertation

POT 5935: Advanced Topics in Political Theory

POT 6016: Ancient Political Thought

POT 6056: Modern Political Thought

POT 6067: Contemporary Political Theory

POT 6306: Liberalism and Its Critics

POT 6314: Democratic Theory

POT 6416: The Marxist Tradition and its Critics

POT 6505: Politics and Theory

POT 6516: Political Judgment

PUP 5935: Advanced Topics in Public Policy

PUP 6006: Policy Evaluation

PUP 6007: Policy Process

PUP 6009: Public Policy Analysis

PUP 6315: Race, Gender, and Politics

Psychology Department

[College of Liberal Arts and Sciences](#)

Chair: Lise Abrams

Graduate Coordinator: Julia A. Graber

Complete faculty listing by department: [Follow this link.](#)

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

For more information, please see the program page below and our website: <http://www.psych.ufl.edu>.

CBH 6056: Comparative Psychology

CLP 6169: Seminar: Psychology and Deviant Behavior

CLP 7525: Best Methods for Studying Psychological Change

DEP 6057: Advanced Developmental Psychology I

DEP 6058: Advanced Developmental Psychology II

DEP 6059: Seminar: Special Topics in Developmental Psychology

DEP 6099: Survey of Developmental Psychology

DEP 6406: Advanced Adulthood and Aging

DEP 6409: Seminar: Adult Development and Aging

DEP 6799: Current Research Methods in Developmental Psychology

DEP 6936: Current Research in Developmental Psychology

DEP 7608: Theories of Developmental Psychology

EAB 5436: Behavioral Pharmacology

EAB 6099: Survey of Behavior Analysis

EAB 6118: Theoretical Foundations of Behavior Analysis

EAB 6707: Applied Behavior I

EAB 6712: Experimental Psychopathology

EAB 6716: Behavior Analysis in Developmental Disabilities

EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research

EAB 6750: Quantitative Methods

EAB 6780: Ethics and Professional Issues

EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior

EAB 6939: Seminar: Special Topics in Applied Behavior Analysis

EAB 7089: Advanced Seminar: Experimental Analysis of Behavior

EAB 7090: Verbal Behavior

EXP 6099: Survey of Cognition and Sensory Processes

EXP 6609: Seminar: Cognition

EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes

PCO 6057: Psychology of Counseling I

PCO 6058: Psychology of Counseling II

PCO 6059: Psychology of Counseling III

PCO 6278: Diversity and Multiculturalism in Counseling Psychology

PCO 6316C: Psychological Assessment I

PCO 6317C: Psychological Assessment II

PCO 6931: History and Contemporary Issues in Counseling Psychology

PCO 6939: Seminar: Current Topics in Counseling Psychology

PCO 7217: Professional Ethics and Skills in Counseling Psychology

PCO 7247: Group Counseling/Psychology

PCO 7537: Vocational Psychology

PCO 7944: Practicum in Counseling Psychology

PCO 7945: Advanced Practicum in Counseling Psychology

PCO 7949: Internship in Counseling Psychology

PPE 6059: Seminar in Personality

PSB 5445: Drug Use and Abuse

PSB 5935: Seminar in Physiological Psychology

PSB 6082: Neuroethology

PSB 6087: Advanced Physiological Psychology

PSB 6088L: Behavioral Neurobiology

PSB 6099: Survey of Physiological and Comparative Psychology

PSB 7248: Neurobehavioral Relations

PSB 7249: Seminar in Neural Mechanisms and Behavior

PSY 6608: History of Psychology

PSY 6905: Individual Work

PSY 6910: Supervised Research

PSY 6930: Topics in Psychology

PSY 6939: Seminar: The Teaching of Psychology

PSY 6940: Supervised Teaching

PSY 6971: Research for Master's Thesis

PSY 7979: Advanced Research

PSY 7980: Research for Doctoral Dissertation

SOP 6099: Survey of Social Psychology

SOP 6219C: Advanced Research Techniques in Social-Personality Psychology

SOP 6409: Seminar: Current Topics in Social-Personality Psychology

SOP 6419: Seminar: Attitudes and Social Cognition

SOP 6509: Seminar: Interpersonal Relations and Group Processes

SOP 6929: Colloquium on Research in Social-Personality Psychology

Religion Department

Chair: Manuel A. Vasquez.

Graduate Coordinator: David G. Hackett

Complete faculty listing by department: [Follow this link.](#)

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the *General Information* section of this catalog.

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://religion.ufl.edu/graduate-studies/> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 15 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://religion.ufl.edu/graduate-studies/>.

REL 6347: American Buddhism

REL 6368: Islam in Asia

REL 6397: Hindu Sacred Texts and Their Ritual Context

RLG 5143: Religion and Social Change

RLG 5195: Topics in Religion and Society

RLG 5297: Topics in Biblical Studies

RLG 5338: Topics in Asian Religions

RLG 5365: Studies in Islam

RLG 5396: Religion and Animals

RLG 5495: Topics in Religious Thought

RLG 5549: Studies in Christianity

RLG 5696: Topics in Jewish Thought

RLG 5906: Individual Work

RLG 5937: Topics in Religious Studies

RLG 6035: Method and Theory I

RLG 6036: Method and Theory II

RLG 6095: Utopias and Dystopias

RLG 6107: Core Seminar in Religion and Nature

RLG 6125: Religion and Politics in the Americas

RLG 6126: Religion in the Americas

RLG 6129: Hindu Traditions in America

RLG 6137: Religion in North America

RLG 6138: New Religious Movements

RLG 6167: Radical Environmentalism

RLG 6181: Ethics and the Natural Sciences

RLG 6183: Religion and Environmental Ethics

RLG 6187: Nature in Asian Religions

RLG 6196: Globalizing the Sacred

RLG 6310: Religion and Nature in South Asia

RLG 6319: Interpreting Asian Religions

RLG 6339: Women in the Hindu Tradition

RLG 6346: Buddhist Traditions

RLG 6385: Native Religions in the Americas

RLG 6387: Religions in Latin America

RLG 6910: Supervised Research

RLG 6940: Supervised Teaching

RLG 6957: Overseas Studies in Religion

RLG 6971: Research for Master's Thesis

RLG 7979: Advanced Research

RLG 7980: Research for Doctoral Dissertation

SRK 6905: Individual Study in Sanskrit

Spanish and Portuguese Studies Department

Chair: G. Lord

Graduate Coordinator: L. Álvarez Castro

Complete faculty listing by department: [Follow this link.](#)

The Department of Spanish and Portuguese Studies offers a Master of Arts degree (M.A.) in Spanish (thesis and non-thesis options) and a Doctor of Philosophy degree (Ph.D.) in Romance Languages and Literatures, with a concentration in Spanish. Descriptions of the minimum requirements for both degrees are provided in the General Information section of this catalog. For specific information about the program, please visit the graduate section of the departmental webpage:

<http://www.spanishandportuguese.ufl.edu/spanish/graduate.html>

Candidates for graduate degrees (both M.A. and Ph.D.) in Spanish can choose between two specializations—literature/culture or linguistics. In conjunction with their master's or doctoral work, students may also earn a Certificate in Latin American Studies. Though a graduate degree is not offered in Portuguese, extensive course offerings at the graduate level permit students to develop a strong specialization in Portuguese language and Luso-Brazilian literature, film and culture.

The main prerequisite for admission to the M.A. program is an undergraduate major in Spanish, ideally including advanced courses in the proposed area of specialization. Applicants for the Ph.D. should hold an M.A. or equivalent degree in Spanish. At the discretion of the Graduate Studies Committee, candidates from related fields of study (History, Sociology...) may be offered a conditional admission into the Ph.D. program pending the passing of the M.A. Comprehensive Examination within the first year of study.

All M.A. and Ph.D. students in Spanish who are appointed as teaching assistants must take Romance Language Teaching Methods (FOL / [FOL 6943](#)). Besides, all M.A. and Ph.D. students specializing in literature and culture must take Introduction to Graduate Study and Research ([SPW 6806](#)). Other requirements vary with degree and specialization. For details, consult the graduate section of the departmental webpage (see above).

The Department is able to offer most students a teaching assistantship that provides a maintenance stipend and includes a tuition waiver. Contingent on positive performance in teaching and graduate work, M.A. students are guaranteed four semesters of support, and Ph.D. students are guaranteed eight semesters of support beyond the M.A. In addition, there are several fellowships, supplements and stipends for which students may apply, and summer teaching may be available.

Prospective students are encouraged to review the departmental webpage in order to familiarize themselves with the program and the application process. Only those applications including all required materials and submitted by the advertised deadlines will be considered. For any questions about the program or how to apply, please contact the graduate coordinator: lacastro@ufl.edu.

Highly qualified UF undergraduate students majoring in Spanish may apply for a combined B.A./M.A. program in Spanish that allows up to 12 graduate credits to be counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details.

FOL 6326: Technology in Foreign Language Education

FOL 6943: Romance Language Teaching Methods

FOW 6930: Special Study in Romance Languages and Literatures

POW 6276: Twentieth-Century Brazilian Novel

POW 6385: Brazilian Lyric

POW 6386: Brazilian Drama

POW 6905: Individual Work

POW 6930: Rotating Topics in Brazilian or Portuguese Literature

SPN 6166: Teaching Spanish for the Professions

SPN 6315: Advanced Composition and Syntax

SPN 6425: Writing for the Profession

SPN 6705: Foundations of Hispanic Linguistics

SPN 6715: Formal Instruction and Acquisition of Spanish

SPN 6735: Special Study in Spanish Linguistics

SPN 6785: Advanced Spanish Phonetics

SPN 6827: Sociolinguistics of the Spanish-Speaking World

SPN 6835: Spanish and Spanish-American Dialectology

SPN 6845: History of the Spanish Language

SPN 6848: Medieval Spanish Linguistics

SPN 6855: Structure of Spanish

SPN 6856: Spanish in Contact: Issues in Bilingualism

SPN 6900: Directed Readings in Spanish

SPN 6940: Supervised Teaching

SPN 6945: Practicum in Advanced College Teaching

SPW 6209: Colonial Spanish-American Literature

SPW 6216: Spanish Prose Fiction of the Golden Age

SPW 6236: Spanish-American Narrative from the origins to Criollismo

SPW 6269: Spanish Novel of the Nineteenth Century

SPW 6278: Postwar Spanish Fiction

SPW 6285: Contemporary Spanish-American Narrative I

SPW 6286: Contemporary Spanish-American Narrative II

SPW 6306: Spanish-American Theater

SPW 6315: Spanish Drama of the Golden Age

SPW 6337: Golden Age Poetry

SPW 6345: Twentieth-Century Spanish Poetry

SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo

SPW 6357: Contemporary Spanish-American Poetry

SPW 6366: Spanish-American Essay

SPW 6535: Spanish Romanticism

SPW 6545: Spanish Romanticism

SPW 6606: Cervantes

SPW 6729: The Generation of 1898

SPW 6806: Introduction to Graduate Study and Research

SPW 6902: Special Study in Spanish or Spanish-American Literature

SPW 6905: Individual Work

SPW 6910: Supervised Research**SPW 6934: Seminar in Spanish American Literature and Culture****SPW 6938: Seminar in Spanish Literature and Culture****SPW 6971: Research for Master's Thesis****SPW 7979: Advanced Research****SPW 7980: Research for Doctoral Dissertation****Statistics Department**

Chair: M. J. Daniels

Graduate Coordinator: J. P. Hobert

Complete faculty listing: [Follow this link.](#)

Graduate programs are available leading to Master of Science in Statistics, Master of Statistics, and Doctor of Philosophy degrees. Minimum requirements for these degrees are described in the *General Information* section of this catalog.

Both master's programs usually require 2 years of course work including material covered in [STA 6208](#), 6208, [STA 6326](#), [STA 6327](#), [STA 6246](#), and [STA 6329](#). In addition to earning a "Ph.D. pass" on the first-year evaluation, requirements for the Ph.D. degree include STA 6466, 6467, [STA 7249](#), and [STA 7346](#).

Interdisciplinary programs: The Department offers a co-major program in conjunction with the Fisher School of Accounting leading to the Doctor of Philosophy degree in statistics and business administration accounting. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Departments of Mathematics; Industrial and Systems Engineering; and Finance, Insurance, and Real Estate. For information on these programs, consult the departmental graduate coordinator.

Combined program: The Department offers a bachelor's/master's degree program. Contact the graduate coordinator for information.

STA 5106: Computer Programs in Statistical Analysis**STA 5507: Applied Nonparametric Methods****STA 5823: Stochastic Process Methods****STA 5856: Applied Time Series Methods****STA 6126: Statistical Methods in Social Research I****STA 6127: Statistical Methods in Social Research II****STA 6167: Statistical Methods in Research II****STA 6177: Applied Survival Analysis****STA 6178: Genetic Data Analysis****STA 6207: Regression Analysis****STA 6208: Basic Design and Analysis of Experiments****STA 6209: Design and Analysis of Experiments****STA 6226: Sampling Theory and Application****STA 6246: Theory of Linear Models****STA 6326: Introduction to Theoretical Statistics I****STA 6327: Introduction to Theoretical Statistics II****STA 6329: Matrix Algebra and Statistical Computing****STA 6505: Analysis of Categorical Data**

STA 6526: Nonparametric Statistics

STA 6707: Analysis of Multivariate Data

STA 6826: Stochastic Processes

STA 6857: Time Series Analysis

STA 6866: Monte Carlo Statistical Methods

STA 6905: Individual Work

STA 6910: Supervised Research

STA 6938: Seminar

STA 6940: Supervised Teaching

STA 6942: Internship

STA 6971: Research for Master's Thesis

STA 7179: Survival Analysis

STA 7334: Limit Theory

STA 7347: Advanced Inference

STA 7348: Bayesian Theory

STA 7466: Probability Theory I

STA 7467: Probability Theory II

STA 7527: Theory of Nonparametric Statistics

STA 7828: Topics in Stochastic Processes

STA 7934: Special Topics in Statistics

STA 7979: Advanced Research

STA 7980: Research for Doctoral Dissertation

Women's Studies Department

Director: Bonnie Moradi

Graduate Coordinator: Kendal Broad

Complete faculty listing by department: [Follow this link.](#)

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as two certificates. These options give students the opportunity to take advantage of scholarship in this dynamic field, and to become acquainted with different research perspectives and methodologies. Students become well grounded in theories of gender in cultural systems and in ways that gender intersects with other categories of difference such as race, ethnicity, religion, class, sexuality, nation, physical and mental ability, age, and economic and civil status. Faculty and students employ feminist and other appropriate theoretical approaches and methodologies.

The Center offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring. The Center in Ustler Hall houses archives, a small library, offices, and meeting space.

For more information about our program, please see the program page below or our website: <http://web.wst.ufl.edu>.

WST 5933: Proseminar in Women's Studies

WST 6348: Ecofeminism

WST 6508: Advanced Feminist Theory

WST 6905: Independent Study

WST 6935: Special Topics in Women's Studies

WST 6936: Feminist Challenges to Disciplinary Paradigms

WST 6946: Internship in Applied Women's Studies and Gender Research

WST 6957: International Studies in Women's Studies and Gender Research

WST 6971: Research for Master's Thesis

College of the Arts Courses

College of the Arts

Dean: L. Lavelli

Complete faculty listings: [Follow this link.](#)

The arts program at UF began in the 1920s to serve the state of Florida's needs. Meeting these needs over the past 80 years has propelled the college to excel on a national and international level and has defined its mission to provide instruction for students seeking professional careers in the arts. In addition to providing rich educational experiences and programs in the arts, the college brings national and international recognition to the university through the high-level professionalism associated with the faculty and alumni, and the competence of students and graduates.

For more information about the College of the Arts, please see our website: <http://www.arts.ufl.edu>

[Departments and Programs within the College of the Arts](#)

[College of the Arts Courses](#)

HUM 5357: Creativity and Health: Foundations of the Arts in Medicine

HUM 5595: Arts in Medicine in Practice

HUM 6340: Arts Advocacy and Public Policy

HUM 6353: Arts in Medicine Professional Seminar

HUM 6354: Arts in Medicine Advanced Professional Seminar

HUM 6358: Arts in Medicine Capstone Proposal

HUM 6359: Arts in Medicine Capstone

HUM 6930: Special Topics in Fine Arts

HUM 6942: Arts in Medicine Graduate Practicum

HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

School of Art and Art History

[College of the Arts](#)

Director: Richard C. Heipp

Graduate Coordinator: Patrick Grigsby

Complete faculty listing: [Follow this link.](#)

The School of Art and Art History offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. The school also offers Master of Arts degrees in art education, art history, and museology (museum studies) and the Doctor of Philosophy degree in art history. Requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog, and information about each of these graduate programs can be found at the links below.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/art>

ARE 6049: History of Teaching Art

ARE 6148: Curriculum in Teaching Art

ARE 6246C: Principles of Teaching Art

ARE 6247C: Teaching Art: The Study of Practice

ARE 6386: Teaching Art in Higher Education

ARE 6641: Issues in Art Education

ARE 6746: Methods of Research in Art Education

ARE 6905: Individual Study

ARE 6910: Capstone Project

ARE 6933: Special Topics in Art Education

ARE 6944: Internship in Teaching Art

ARE 6971: Research for Master's Thesis

ARE 6973: Individual Project

ARH 5357: French Art of the Ancien Regime: 1680-1780

ARH 5420: Art in the Age of Revolution

ARH 5440: Beginnings of Modernism

ARH 5527: Arts of Central Africa

ARH 5528: Art of West Africa

ARH 5529: Clothing and Textiles in Africa

ARH 5655: Indigenous American Art

ARH 5667: Colonial Andean Art

ARH 5816: Methods of Research and Bibliography

ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900

ARH 5905: Individual Study

ARH 6141: Greek Art Seminar

ARH 6292: Medieval Art Seminar

ARH 6394: Renaissance Art Seminar

ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890

ARH 6477: Eighteenth-Century European Art Seminar

ARH 6481: Contemporary Art Seminar

ARH 6496: Modern Art Seminar

ARH 6596: Chinese Art Seminar

ARH 6597: African Art Seminar

ARH 6654: Pre-Columbian Art Seminar

ARH 6666: Colonial Latin American Art Seminar

ARH 6694: Nineteenth-Century Art–Seminar

ARH 6696: American Art Seminar

ARH 6797: Museum Education

ARH 6836: Exhibitions Seminar

ARH 6895: Collections Management Seminar

ARH 6900: Independent Study in Museology

ARH 6910: Supervised Research

ARH 6911: Advanced Study

ARH 6914: Independent Study in Ancient Art History

ARH 6915: Independent Study in Medieval Art History

ARH 6916: Independent Study in Renaissance and Baroque Art History

ARH 6917: Independent Study in Modern Art History

ARH 6918: Independent Study in Non-Western Art History

ARH 6930: Special Topics in Museology

ARH 6938: Seminar in Museum Studies

ARH 6941: Supervised Internship

ARH 6946: Museum Practicum

ARH 6948: Gallery Practicum

ARH 6971: Research for Master's Thesis

ARH 7979: Advanced Research

ARH 7980: Research for Doctoral Dissertation

ART 5674C: Digital Fabrication

ART 5905C: Directed Study

ART 5930C: Special Topics

ART 6410C: Printmaking Seminar: Mastering Process and Content

ART 6411C: Printmaking Seminar: Transformation and Change

ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works

ART 6413C: Printmaking Seminar: Interdisciplinary Studio

ART 6671C: Advanced Experiments in Digital Art

ART 6672: Hypermedia

ART 6673C: Video Art

ART 6675C: Digital Art and Animation

ART 6691: Digital Art Studio

ART 6794C: Vessel Aesthetic 1

ART 6795C: Vessel Aesthetic 2

ART 6797C: Ceramic Sculpture 2

ART 6835C: Research in Methods and Materials of the Artist

ART 6849C: Reactive Environments

ART 6897: Professional Practices for the Visual Artist

ART 6910C: Supervised Research

ART 6925C: Art + Technology Workshop

ART 6926C: Advanced Study I

ART 6927C: Advanced Study II

ART 6928C: Advanced Study III

ART 6929C: Advanced Study IV

ART 6933: Area Methods: Rotating Topics

ART 6971: Research for Master's Thesis

ART 6973C: Individual Project

DIG 6746C: Graduate Seminar in Sensors and Electronics

IDC 6505C: Programming for Artists

PHC 7935: Critical Thinking in Environmental and Global Health

Digital Worlds Institute

[College of the Arts](#)

Director: James C. Oliverio

Graduate Coordinator: Marko Suvajdzic

Complete faculty listing: [Follow this link.](#)

The Digital Worlds Institute exists to nurture leading edge education between the arts, communications, engineering and the sciences, utilizing advanced media systems and digital culture. By bringing together the diverse talents of University of Florida faculty, students, and staff in a multifaceted collaborative environment, the Institute serves as a platform for interdisciplinary research and teaching that would not have occurred within the confines of any one college or department. Through the use of interactive tools and technologies, the Institute promotes transdisciplinary creativity across classrooms, continents and cultures.

For more information, please see the program page below and our website: <http://www.digitalworlds.ufl.edu>.

DIG 5555C: Digital Media Projection Design I

DIG 5931C: Special Topics

DIG 6027C: Interactive Storytelling

DIG 6028: Roots of Digital Culture

DIG 6050C: Entertainment Technology

DIG 6125C: Digital Design & Visualization

DIG 6126C: Interaction Design

DIG 6256C: Audio Design For Digital Production

DIG 6358C: APPLIED 3D MODELING

DIG 6556C: Digital Media Projection Design II

DIG 6589C: Digital Portfolio

DIG 6719: Videogame Theory and Analysis

DIG 6744C: Movement, Media and Machines

DIG 6751C: Protocols for Multimedia Interfaces

DIG 6788C: Digital Production & Game Design

DIG 6840C: Interdisciplinary Research Seminar in Digital Arts & Sciences

DIG 6850C: Digital Arts & Sciences Convergence

DIG 6906: Independent Study - Graduate Level

DIG 6950C: Digital Performance Production

DIG 6971: Research for Master's Thesis

DIG 6973: Capstone Project in Lieu of Thesis

Music Department

[College of the Arts](#)

Director: J. A. Duff.

Graduate Coordinator: L. S. Odom.

Complete faculty listing by department: [Follow this link.](#)

The School of Music offers programs leading to the Master of Music degree in music and music education. Program concentrations in music include choral conducting, composition, instrumental conducting, musicology, ethnomusicology, music theory, performance, and sacred music. In addition, the School of Music offers the Doctor of Philosophy degree in music and in music education.

The Ph.D. program in music education emphasizes college music teaching. The Ph.D. program in music includes concentrations in:

- Music history and literature, with options in traditional musicology and ethnomusicology
- Composition, with options in acoustic and electroacoustic specialization

All Ph.D. students are encouraged to find opportunities to teach and lecture in their specializations; and with the assistance of their principal professors, to prepare papers, workshops, and clinics for presentation at professional conferences, in the public schools, and at colleges and universities. Students also are encouraged to publish their research in appropriate journals. Minimum requirements for the M.M. and Ph.D. degrees are given in the General Information section of this catalog. The week before classes begin, students must take placement examinations in music history and in music theory. Students wanting to study privately in a performance studio must be auditioned and accepted by the appropriate area faculty. Voice students must demonstrate appropriate skills in language and diction. All deficiencies must be remedied.

For more information, please see the program pages below and our website: <http://www.arts.ufl.edu/welcome/music>.

DIG 6288: Music and Sound Design for Digital Media

MUC 5315: Introduction to Electroacoustic Music

MUC 6444: Composition of Electronic Music

MUC 6445: Electroacoustic Music Composition: Digital I

MUC 6446: Electroacoustic Music Composition--Digital II

MUC 6900: Secondary Graduate Composition

MUC 6930: Graduate Composition

MUC 6932: Composition Seminar

MUC 7447: Advanced Seminar in Electroacoustic Music

MUC 7931: Advanced Graduate Composition

MUC 7938: Seminar in Digital Sound Processing, Control, and Composition

MUE 6080: Historical and Philosophical Foundations of Music Education

MUE 6385: Music in Higher Education

MUE 6399: Creative Thinking in Music

MUE 6444: Materials and Methods of String Class Teaching

MUE 6497: Public School Orchestral Literature

MUE 6647: Trends in Teaching and Learning Music

MUE 6696: Technology Assisted Music Learning

MUE 6747: Assessing Music Learning

MUE 6785: Research in Music Education

MUE 6790: Capstone Project for Music Education

MUE 6931: Instructional Design in Music Education

MUE 7746: Measurement and Evaluation of Music

MUE 7938: Music Education Seminar

MUG 6105: Graduate Conducting

MUG 7106: Advanced Graduate Conducting

MUH 5219: Graduate Music History Review

MUH 5505: Introduction to Ethnomusicology

MUH 5684: Introduction to Historical Musicology

MUH 6526: American Vernacular Music

MUH 6545: The Guitar in Latin American Culture

MUH 6548: Seminar in Caribbean Music

MUH 6549: Seminar in Brazilian Music

MUH 6635: Seminar in American Music

MUH 6665: History of Opera

MUH 6671: Seminar in Renaissance Music

MUH 6672: Seminar in Baroque Music

MUH 6673: Seminar in Classical Music

MUH 6674: Seminar in Nineteenth-Century Music

MUH 6675: Seminar in Twentieth-Century Music

MUH 6931: Nationalism in Music

MUH 6935: Special Topics in Music History

MUH 7411: Medieval and Renaissance Notation

MUH 7938: Musicology Seminar

MUL 6435: String Literature

MUL 6486: Piano Literature

MUL 6495: Graduate Organ Literature

MUL 6555: Survey of Wind Literature

MUL 6565: Chamber Music Literature

MUL 6645: Choral Literature

MUN 6010: Graduate Ensemble

MUN 6125: Concert Band

MUN 6135: Symphonic Band

MUN 6145: Symphonic Wind Ensemble

MUN 6215: University Orchestra

MUN 6315: University Choir

MUN 6325: Women's Chorale

MUN 6335: Men's Glee Club

MUN 6445: Percussion Ensemble

MUN 6495: Steel Drum Ensemble

MUN 6496: World Music Ensemble

MUN 6497: New Music Ensemble

MUN 6715: Jazz Band

MUR 6206: Survey of Hymnody

MUR 6705: Sacred Music Literature

MUS 5911: Directed Study

MUS 6685: Psychology of Music

MUS 6716: Methods of Musical Research and Bibliography

MUS 6905: Projects and Problems

MUS 6910: Supervised Research

MUS 6940: Supervised Teaching

MUS 6971: Research for Master's Thesis

MUS 6973: Individual Project

MUS 7656: Teaching Music and the Creative Process

MUS 7905: Projects and Problems

MUS 7979: Advanced Research

MUS 7980: Research for Doctoral Dissertation

MUT 6051: Graduate Music Theory Review

MUT 6445: Advanced Counterpoint

MUT 6531: Figured Bass and Continuo Performance

MUT 6565: Late Nineteenth- and Twentieth-Century Styles

MUT 6576: Contemporary Styles

MUT 6617: Approaches to Theoretical Analysis in Music Education

MUT 6624: Seminar in Set Theory

MUT 6627: Seminar in Reductive Analysis

MUT 6629: Analytical Techniques

MUT 6751: Pedagogy of Music Theory

MUT 6936: Music Theory Seminar

MUT 7316: Advanced Orchestration

MUT 7585: Seminar in Musical Style

MUT 7760: History of Music Theory

MVK 5156: Improvisational Keyboard Skills and Related Technology

MVK 6605: Organ Pedagogy

MVK 6651: Piano Pedagogy

MVK 6661: Advanced Piano Pedagogy

MVO 6250: Secondary Music Performance

MVO 6460: Music Performance

MVO 7460: Music Performance

MVS 6651: String Pedagogy I

MVW 6651: Vocal Pedagogy

School of Theatre and Dance

Director: J. Dickey

Graduate Performance Program Coordinator: Ralf Remshardt

Graduate Design Program Coordinator: S. Kaye

Complete faculty listing by department: [Follow this link.](#)

The graduate program offered by the School of Theatre and Dance leads to the degree of Master of Fine Arts in Theatre. Minimum requirements for this degree are given in the *General Information* section of this catalog

The M.F.A. degree prepares students for professional entry in acting, production, or teaching. Placement in the M.F.A. program is determined by audition/portfolio review, academic credentials, and personal interview. Candidates for admission should have adequate training in theatre. Deficiencies may be corrected before beginning graduate study.

The program emphasizes the study and practice of theatre as an art and discipline. Students of acting and design study concepts of theatre together while working in their areas of specialization. Focus is on the collaboration and synthesis of theatre artistry. Each incoming class is composed of approximately 12 to 18 students in acting and all design areas.

The student's artistic and academic progress will be reviewed at the end of each semester. The *School of Theatre Handbook* gives details on the form and focus of each review. This information is online at <http://www.arts.ufl.edu/theatreanddance/pages/whatyouneedtoknow/downloads/downloads.asp>.

During the final year of study, each student must successfully complete the comprehensive examination and oral defense. The project in lieu of thesis includes research, analysis, rehearsal process, and evaluation. Development and execution of the project includes public performance (acting or design). The written document and oral defense of the project which follow must demonstrate the ability to communicate the creative process.

Graduate acting students audition for all departmental productions.

ARC 6670: Lighting Design Seminar

DAA 6757: Pilates Technique for the Dancer

DAA 6905: Graduate Dance Project

DAN 6436: Laban Movement Analysis

DAN 6949: Dance Clinical Practice

THE 5238: African-American Theatre History and Practice

THE 5287: History of Decor and Architecture for the Stage

THE 5910: Introduction to Graduate Study in Theatre

THE 6265: Costume History

THE 6525: History, Literature, and Criticism I

THE 6526: History, Literature, and Criticism II

THE 6565: Seminar in Creative Process

THE 6905: Individual Study

THE 6940: Supervised Teaching

THE 6941: Internship

THE 6950: Applied Theatre

THE 6955: Summer Repertory Theatre

THE 6971: Research for Master's Thesis

THE 6973C: Project in Lieu of Thesis

TPA 5025: Lighting Design I

TPA 5047: Costume Design I

TPA 5067: Scene Design I

TPA 5072: Drawing and Rendering

TPA 5079: Graduate Scene Painting

TPA 5082: Advanced Theatre Graphics

TPA 5236: Costume Technologies Workshop

TPA 6005: Design I

TPA 6006: Design II

TPA 6009: Design Studio

TPA 6026: Lighting Design II

TPA 6048: Costume Design II

TPA 6054: Detail Design for Costume Designers

TPA 6069: Scene Design II

TPA 6235: Costume Construction

TPA 6237: Pattern Making: Flat Patterning

TPA 6243: Pattern Making: Draping

TPA 6258: Computer Drafting 2D

TPA 6357: Programming and Presentation for the Lighting Designer

TPP 5234: Mutli-Cultural Performance Workshop

TPP 6115: Graduate Acting I: Modern Acting Theory and Practice

TPP 6116: Graduate Acting II: Shakespeare and High Style

TPP 6145: Graduate Acting III: Period Styles

TPP 6149: Acting IV: Contemporary Realism

TPP 6225: Professional Seminar: Acting

TPP 6237: MFA Company Acting Workshop

TPP 6266: Acting for the Camera

TPP 6285: Voice and Movement I

TPP 6286: MFA Voice and Speech II: Shakespeare and High Styles

TPP 6297: The Alexander Technique I

TPP 6298: The Alexander Technique II

TPP 6299: The Alexander Technique III

TPP 6385: Directing

TPP 6515: Graduate Movement Training

TPP 6536: Graduate Stage Combat

TPP 6717: MFA Voice and Speech III: Period Styles

TPP 6718: MFA Voice and Speech IV: Advanced Vocal Training for the Actor

TPP 6946: Performance Practicum

Colleges

College of Agricultural and Life Sciences

Dean: Elaine Turner

Complete faculty listings: [Follow this link.](#)

The College of Agricultural and Life Sciences offers academic programs and grants advanced degrees in 17 departments and the Schools of Forest Resources and Conservation, and Natural Resources and Environment. These academic units are all a part of the Institute of Food and Agricultural Sciences (IFAS). Additional components of IFAS include 16 research centers located throughout the state and cooperative extension offices in each of the 67 counties of the state.

The following courses are offered under the supervision of the office of the dean by an interdisciplinary faculty and deal with material of concern to two or more IFAS academic units. The courses are also open to students of other colleges, with the permission of the course instructor.

For more information, please see our website: <http://cals.ufl.edu>

[Departments and Programs within the College of Agricultural and Life Sciences](#)

[College of Agricultural and Life Sciences Courses](#)

College of the Arts

Dean: L. Lavelli

Complete faculty listings: [Follow this link.](#)

The arts program at UF began in the 1920s to serve the state of Florida's needs. Meeting these needs over the past 80 years has propelled the college to excel on a national and international level and has defined its mission to provide instruction for students seeking professional careers in the arts. In addition to providing rich educational experiences and programs in the arts, the college brings national and international recognition to the university through the high-level professionalism associated with the faculty and alumni, and the competence of students and graduates.

For more information about the College of the Arts, please see our website: <http://www.arts.ufl.edu>

[Departments and Programs within the College of the Arts](#)

[College of the Arts Courses](#)

Warrington College of Business Administration

Dean: Jamie Kraft

Complete faculty listings: [Follow this link.](#)

Graduate degrees offered by the Warrington College of Business Administration are the Doctor of Philosophy with major programs in business administration and in economics; the Master of Arts with major programs in economics, in international business, and in business administration with concentrations in insurance and marketing; the Master of Science with major programs in Information Systems and Operations Management (with a concentration in supply chain management), in finance, in management, in real estate, and in business administration, including concentrations in entrepreneurship, insurance, marketing and retail; the Master of Business Administration; and the Master of Accounting. Fields of concentration and requirements for the M.B.A. are given under [Graduate Degrees](#) of this catalog, as well as admission and degree requirements for the Ph.D., M.A., and M.S. degrees.

Master of Arts: The M.A. degree with a major in international business is designed to provide students with quantitative and application skills to be used in an international business setting. The program provides practical training with a brief study trip to a major international city, where students are required to participate actively in business tours and lectures. The students also have the opportunity to gain credits for the degree by studying at one or more foreign universities for a period of 2 weeks to 8 months.

Master of Science: The M.S. degree with a major in management targets students from nonbusiness backgrounds who would like to gain "core" business knowledge and application skills. Requirements span the traditional business disciplines to produce a sound knowledge base for students seeking a solid business foundation. Students are required to take such courses as accounting, finance, economics, entrepreneurship, management, marketing, organizational behavior, and statistics. Typical positions for graduates include managers, consultants, and analysts.

Doctor of Philosophy: For the Ph.D. in business administration, students must have a concentration in one of the following:

- Accounting
- Information Systems and Operation Management
- Finance
- Insurance
- Management
- Marketing
- Real estate and urban analysis.

Specific requirements for the various departments and specialties are given in the [Graduate Degrees](#) section in this catalog. (Requirements for the Ph.D. degree in economics are described under the *Economics* section of the catalog.) All candidates for the Ph.D. in business administration must satisfy the following general requirements:

Breadth requirement: All applicants for Ph.D. in the business administration program are expected to have completed prior business-related course work at either the advanced undergraduate or graduate level. Students entering without prior work are required to take a minimum of three graduate courses in at least two fields other than their chosen area of concentration. Most often, the appropriate courses will be found in the M.B.A. first-year core; the particular courses to be taken by a student will be decided in consultation with the student's academic adviser. After a student enters the Ph.D. program, the courses taken to satisfy the breadth requirement must be taken in the College of Business Administration.

Research foundations requirement: All students must complete a six-course research skills sequence that prepares them for scholarly research in their chosen area of concentration. Research foundations are defined as essential methodological tools (e.g., statistics, quantitative analysis) and/or substantive content domains (e.g., psychology, economics) outside the student's major field that are considered essential to conducting high quality research in the chosen field. The specific research skills required by each area of concentration can be found in the field descriptions in this Catalog.

Other requirements include satisfactory completion of graduate course work in the major field of concentration, as well as one or two minor fields designed to add depth to the student's research training. Minors are selected by the student in consultation with his or her advisory committee, and may be within or outside the College of Business Administration. Other requirements for the Ph.D. are given in the [Graduate Degrees](#) section of this catalog.

[Departments and Programs within Warrington College of Business Administration](#)

[Warrington College of Business Courses](#)

College of Dentistry

Interim Dean: Boyd Robinson
Associate Dean & Director: Roberta Pileggi

Complete faculty listings: [Follow this link](#).

Advanced education has progressed over the years to be an integral component of the College of Dentistry, growing from six certificate residency programs, with an enrollment of only 36 students in 1979, to fourteen certificate programs and various fellowship programs. Enrollment is now over 140. In 1993, the college started master degree programs in endodontics, orthodontics, periodontics and prosthodontics, and continues today to grow.

Follow this link for more information about UF's College of Dentistry graduate programs: <http://admissions.dental.ufl.edu/advanced-graduate-programs/programs-application-process/>

[Departments and Programs within the College of Dentistry](#)

[College of Dentistry Courses](#)

College of Design, Construction, and Planning

Dean: C. Silver

Complete faculty listings: [Follow this link](#).

DCP is home to five independent professional disciplines: architecture, construction management, interior design, landscape architecture and urban and regional planning. The college also is home to an interdisciplinary program in historic preservation, which allows graduate students to gain expertise in research and application of historic preservation in the United States and abroad.

Accreditation and Degrees

The academic programs in the college have an accreditation process from the professional organizations of each discipline.

- Architecture – National Architectural Accrediting Board
- Construction Management – American Council for Construction Education
- Interior Design – Foundation for Interior Design Education Research
- Landscape Architecture – American Society of Landscape Architects
- Urban and Regional Planning – Planning Accreditation Board

DCP offers both undergraduate and graduate degrees and programs. Through its academic units, the college offers doctoral, master's, and bachelor's degrees, as well as distance education programs, combined degrees, joint degrees, certificate programs, and academic minors.

College Institutes, Centers and Programs

Research and service projects conducted through the research centers and institutes often entail multidisciplinary, cross-campus student input and effort. Each division of the college is involved in on-going projects that advance both scholarly study and professional practice. The college contributes to community, state, regional and national efforts to conserve and improve the quality of the natural and built environments through its research centers. The college's teaching and research programs have national and international prominence.

For more information, please see our website: <http://www.dcp.ufl.edu>

[Departments and Programs within the College of Design, Construction, and Planning](#)

[College of Design, Construction, and Planning Courses](#)

College of Education

Dean: G. Good.

Complete faculty listings: [Follow this link](#).

Graduate study in education, allows individuals with bachelor's degrees in agriculture, business, education, engineering, mathematics, sciences, humanities, foreign languages, preprofessional studies and other fields to prepare for rewarding professional careers in education and related fields.

The College of Education offers 19 master's or specialist programs, 12 doctoral programs, and a J.D./Ph.D. program with the College of Law through its three schools: [Human Development and Organizational Studies in Education](#); [Special Education, School Psychology and Early Childhood Studies](#); and [School of Teaching and Learning](#).

Follow these links for more information about UF's College of Education graduate programs:

<http://education.ufl.edu/graduate-studies>

<http://education.ufl.edu/programs>

[Departments and Programs within the College of Education](#)

[College of Education Courses](#)

College of Engineering

Dean: C. Abernathy

Complete faculty listings: [Follow this link.](#)

The College of Engineering is organized into a number of departments focusing on today's most pressing engineering questions. There is an interdisciplinary culture at the core of Gator Engineering, though, and researchers regularly collaborate with colleagues in departments and colleges beyond their own.

For more information, please see our website: <http://www.eng.ufl.edu>

[Departments and Programs within the College of Engineering](#)

[College of Engineering Courses](#)

College of Health and Human Performance

Dean: M. Reid

Complete faculty listings: [Follow this link.](#)

Research and teaching in HHP has an impact on almost every aspect of the human condition. The college's four centers – the [Florida Center for Health Promotion](#), [Center for Exercise Science](#), and the [Eric Friedheim Tourism Institute](#) – as well as its three primary departments – [Applied Physiology and Kinesiology](#), [Health Education and Behavior](#), and [Tourism, Recreation, and Sport Management Department](#) – place the college firmly in a position to influence and improve an array of societal problems and challenges.

For more information about the College of Health and Human Performance, please see our website: <http://hhp.ufl.edu>

[Departments and Programs within the College of Health and Human Performance](#)

[College of Health and Human Performance Courses](#)

College of Journalism and Communications

Dean: D. McFarlin

Senior Associate Dean for Graduate Studies and Research: D. Treise

Graduate Coordinators:

(Advertising) J. R. Goodman
(International Communication) M. Leslie
(Journalism) R. Rodgers
(Public Relations) M.A. Ferguson
(Science/Health Communication) D. Treise
(Telecommunication) J. Cleary.

Complete faculty listings: [Follow this link.](#)

Through the Division of Graduate Studies and Research, the College of Journalism and Communications offers the Doctor of Philosophy degree, the Master of Arts in Mass Communication (thesis or project option) degree, and the Master of Advertising (thesis) degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Doctoral students work closely with faculty members in research leading to a dissertation embodying a humanities, law/policy, or social sciences approach. Emphases within these approaches for which faculty members have expertise include advertising, journalism, public relations, telecommunication, international communication, and political communication. Details of doctoral faculty research interests and other aspects of the program are given in the College's Ph.D. Handbook.

Master's students may complete a thesis in advertising, journalism, public relations, telecommunication, international communication, or science/health communication. With the approval of the Sr. Associate Dean of Graduate Studies and Research and other faculty members, master's students may develop an individualized program of study, with thesis, to meet their specific needs and interests. A project in lieu of thesis option is available for some specializations.

Mass Communication/Law joint degree programs: Programs leading to the Master of Arts in Mass Communication or the Doctor of Philosophy and the Juris Doctor are offered under the joint auspices of the College of Journalism and Communications and the College of Law. For students interested in scholarship or practice of communication law or in reporting on the law, the programs offer the opportunity to blend relevant work from the two colleges. Students must meet the entrance requirements of both colleges. A thesis or dissertation is required. Interested students should apply for admission to both the Graduate School and the College of Law, noting on the applications the joint nature of the admission requests. Further information on the programs and on application procedures is available from the Holland Law Center and from the Division of Graduate Studies and Research of the College of Journalism and Communications.

General admission: Admission is granted to applicants with and without background in mass communication. Students without academic preparation in mass communication or appropriate experience may be required to take articulation work. These courses are taken concurrently with general graduate courses, starting in the first term of registration. Some degree plans require a background course in statistics. Students who have satisfied that requirement must provide written verification. Including articulation courses, the master's degree normally can be earned in one and one-half or two years of full-time study. Doctoral studies require three or more years of full-time study and research. Students who may require articulation courses should contact the Sr. Associate Dean of Graduate Studies and Research.

Grading policy: Any student whose cumulative GPA falls below 3.0 will be placed on probation. Any doctoral student who receives one grade below B- or a Master's student who receives one grade below C+ will be placed on probation, with the exception of courses taken from the Levin College of Law. For these courses, any student receiving one grade below C in any course from the Levin College of Law will be placed on probation. A requirement of the probation is that the student must achieve or maintain a cumulative grade point average of 3.0 or higher at the end of the next academic term in residence. A student who fails to satisfy the requirement will be suspended. A Doctoral student who accumulates two grades below "B-" or a Master's student who accumulates two grades below C+ during graduate studies will be suspended, as will a student who receives one grade of "D+" or lower at any time. Students will be allowed only one suspension.

Combined degree program: The College offers a combined bachelor's/master's program. For information, contact the Associate Dean for Graduate Studies.

For additional information, please see our website: <http://www.jou.ufl.edu/grad>.

[College of Journalism and Mass Communication Courses](#)

Fredric G. Levin College of Law

Dean: R. Jerry II

Complete faculty listings: [Follow this link.](#)

The University of Florida Levin College of Law has a longstanding tradition of producing national leaders, including current American Bar Association President Stephen Zack, and is one of the nation's best values in legal education.

For more information, please see our website: <http://www.law.ufl.edu>

[Departments and Programs within Levin College of Law](#)

[Levin College of Law Courses](#)

College of Liberal Arts and Sciences

Interim Dean: David Richardson

Complete faculty listings: [Follow this link](#).

The College of Liberal Arts and Sciences constitutes the intellectual core of the university. Its principal mission is to lead the academic quest to understand our place in the universe, and to help shape our society and environment.

For more information, please see our website: <http://www.clas.ufl.edu>

[Departments and Programs within the College of Liberal Arts and Sciences](#)

[College of Liberal Arts and Sciences Courses](#)

College of Medicine

Dean: M.L. Good

Complete faculty listings: [Follow this link](#).

The College of Medicine offers training opportunities leading to either the Doctor of Philosophy or Master of Science degree in medical sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For more information, please see our website: <http://med.ufl.edu>.

The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings. For further information, visit <http://idp.med.ufl.edu>.

[Departments and Programs within the College of Medicine](#)

[College of Medicine Courses](#)

College of Nursing

Dean: A.M. McDaniel

Complete faculty listings: [Follow this link](#).

The nationally ranked College of Nursing offers the graduate degrees of Master of Science in Nursing, Doctor of Nursing Practice, and Doctor of Philosophy in nursing sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Students may request special review by the College of Nursing Admissions Committee if they believe they are strong candidates for graduate study but do not fully meet all criteria.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal. Additional offerings include

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader

For additional information about the Nursing programs, visit <http://www.nursing.ufl.edu> or call (352) 273-6331.

[College of Nursing Courses](#)

College of Pharmacy

Dean: J. Johnson

Complete faculty listings: [Follow this link](#).

The College of Pharmacy offers the Doctor of Philosophy and the Master of Science in Pharmacy degrees in the pharmaceutical sciences, with concentrations in medicinal chemistry, pharmacodynamics, pharmaceutical outcomes and policy, and pharmacy which includes pharmaceuticals. There are two additional concentrations in the Master of Science in Pharmacy program in pharmaceutical sciences: forensic drug chemistry, and forensic serology and DNA. Both offered in a distance-learning, nonthesis format. Complete descriptions of the minimum requirements for the M.S.P. and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

The Graduate Faculty and courses offered are listed under department headings in this catalog. The courses listed below consist of seminar, supervised teaching and research, and research for thesis or doctoral dissertation. These courses are offered in each of the departments.

Students who wish to pursue graduate studies in the College of Pharmacy must have an undergraduate degree in pharmacy, chemistry, biology, or related sciences.

Satisfactory completion of a thesis or dissertation based on research is a requirement for a graduate degree in the pharmaceutical sciences.

Inquiries regarding applications and general information about the graduate programs are processed through the

Office of Research and Graduate Studies,
College of Pharmacy,
P.O. Box 100484,
Health Science Center.

For more information, please see our website: <http://pharmacy.ufl.edu>.

[Departments and Programs within the College of Pharmacy](#)

[College of Pharmacy Courses](#)

College of Public Health and Health Professions

Dean: Michael G. Perri

Executive Associate Dean: Stephanie L. Hanson

Complete faculty listings: [Follow this link](#).

The University of Florida College of Public Health and Health Professions has established a new educational model that focuses on the integration of public health problem-solving and individual patient care. The college's mission is to preserve, promote and improve the health and well-being of populations, communities and individuals. To fulfill this mission, we foster collaborations among public health and the health professions in education, research and service.

For more information, please see our website: <http://phhp.ufl.edu>

[Departments and Programs within the College of Public Health and Health Professions](#)

[College of Public Health and Health Professions Courses](#)

College of Veterinary Medicine

Dean: G. F. Hoffsis

Complete faculty listings: [Follow this link](#).

The UF College of Veterinary Medicine is the state's only veterinary college. UF's College of Veterinary Medicine offers comprehensive services to the public through teaching, research, extension and state-of-the-art patient care.

For more information, please see our website: <http://www.vetmed.ufl.edu>

[Departments and Programs within the College of Veterinary Medicine](#)

[College of Veterinary Medicine Courses](#)

Colleges and Departments

University of Florida

College of Agricultural and Life Sciences

Dean: Elaine Turner

Complete faculty listings: [Follow this link](#).

The College of Agricultural and Life Sciences offers academic programs and grants advanced degrees in 17 departments and the Schools of Forest Resources and Conservation, and Natural Resources and Environment. These academic units are all a part of the Institute of Food and Agricultural Sciences (IFAS). Additional components of IFAS include 16 research centers located throughout the state and cooperative extension offices in each of the 67 counties of the state.

The following courses are offered under the supervision of the office of the dean by an interdisciplinary faculty and deal with material of concern to two or more IFAS academic units. The courses are also open to students of other colleges, with the permission of the course instructor.

For more information, please see our website: <http://cals.ufl.edu>

[Departments and Programs within the College of Agricultural and Life Sciences](#)

[College of Agricultural and Life Sciences Courses](#)

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link](#).

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

Agricultural Education and Communication Department

Chair: E. W. Osborne
Graduate Coordinator: B. E. Myers

Complete faculty listing by department: [Follow this link.](#)

The Department of Agricultural Education and Communication offers the degrees of Master of Science and Doctor of Philosophy. Graduate students who obtain a degree in Agricultural Education and Communication will focus their study in one of four areas of specialization. The areas of specialization are agricultural communication, agricultural education, extension education, and leadership development. These degree programs are individually tailored to meet the student's unique needs for professional development. The requirements for each degree are described in the [Graduate Degrees](#) section of the University of Florida Graduate Catalog. More information about our program can be found by following the link below.

Agronomy Department

Chair: R. A. Gilbert
Graduate Coordinator: L. E. Sollenberger

Complete faculty listing by department: [Follow this link.](#)

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis options) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agricultural and natural ecosystems in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen
Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Animal Sciences Department

Chair: G. E. Dahl
Graduate Coordinator: G. Adesogan

Complete faculty listing by department: [Follow this link.](#)

Animal Sciences is an academic department of the [College of Agriculture and Life Sciences \(CALS\)](#), a unit of the [Institute of Food and Agricultural Sciences \(IFAS\)](#). Creating new solutions to tomorrow's problems underlies everything we do in the Animal Sciences Program. In the areas of teaching, research, and extension, our faculty integrates the most modern technologies available with personal expertise and attention to the needs of students and our industry. For more information about the Animal Sciences program, please follow the link below.

Entomology and Nematology Department

[College of Agricultural and Life Sciences](#)

Chair: John L. Capinera
Graduate Coordinator: Heather J. McAuslane

Complete faculty listing by department: [Follow this link.](#)

The Entomology and Nematology Department offers the Master of Science (thesis and nonthesis options) and Doctor of Philosophy degrees in entomology and nematology with the following specializations: entomology, nematology, and pest management. Minimum requirements for the M.S. and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

The Department also offers a cooperative Doctor of Philosophy degree with Florida A&M University and distance education courses leading to the M.S. degree. Members of the Graduate Faculty include the department resident faculty, faculty located on University of Florida campuses away from Gainesville, scientists with other State of Florida agencies such as the Division of Plant Industry and Florida Department of Agriculture and Consumer Services, and scientists of the U.S. Department of Agriculture. The Graduate Faculty is qualified to direct graduate students in all specialties of entomology, nematology, and acarology.

New graduate students should have backgrounds in biology, chemistry, physics, and mathematics. Minor deficiencies may be made up after entering graduate school.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please see the program page below, and visit our website: <http://entnemdept.ufl.edu>.

Family, Youth, and Community Sciences Department

Interim Chair: Tracy Irani
Graduate Coordinator: Larry F. Forthun

Complete faculty listing by department: [Follow this link](#)

The FYCS graduate program is an interdisciplinary applied social science program that prepares students for advanced degrees (e.g., Ph.D.) and careers in such areas as family and youth services, Extension and community-based education, community development and nonprofit management, program planning and evaluation, and social policy. Graduates find careers in both the public and private sectors including:

- Child and Youth Development in areas such as juvenile justice, dropout prevention programs, recreational and camp programs, and youth ministry;
- Community Development Practice in local and regional government, private nonprofit organizations (such as chambers of commerce, local development corporations, and local, national and international foundations) and citizen's groups;
- Nonprofit Organizational Management, such as management of community based, nonprofit organizations;
- Family and Social Services, such as family preservation programs, assistance for abused and neglected children and other public assistance programs; and
- Cooperative Extension Service in such areas as youth development, family and consumer sciences and community development.

Contact the graduate coordinator for more information.

Food and Resource Economics Department

[College of Agricultural and Life Sciences](#)

Interim Chair: Rodney L. Clouser
Acting Graduate Coordinator: Sherry Larkin

Complete faculty listing by department: [Follow this link](#)

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

The Department participates in programs with the Center for Latin American Studies, the Center for African Studies, the Center for Tropical Agriculture, the School of Natural Resources and Environment, the College of Law, and the Florida Sea Grant College Program.

The Department programs reflects the diversity of Florida's agriculture which has more than fifty major commodities. With over thirty faculty involved in a full range of research, extension, and teaching programs in areas including Agricultural Marketing, International Trade, Policy, Production/Farm Management, International Development, Marine Economics, Natural Resource and Environmental Economics, Community/Regional Development and Labor Economics. In addition to the main campus location, the department has faculty at research centers throughout the state.

Several members of the faculty have garnered international reputations in diverse fields such as trade policy, generic advertising, citrus economics, sugar policy, business retention and expansion, leadership development, consumer attitudes towards genetically modified food, and dairy marketing.

The Department offers a combined bachelor's/master's degree program for the Master of Science and Master of Science with Concentration in Agribusiness. Contact the Graduate Program Office in 1170 McCarty Hall for information.

For more information, please see the program pages below, and see our website: <http://www.fred.ifas.ufl.edu>.

Food Science and Human Nutrition Department

[College of Agricultural and Life Sciences](#)

Chair: Susan S. Percival
Graduate Coordinators: Harry S. Sitren (M.S. in Food Science and Human Nutrition / Ph.D. in Food Science), James F. Collins (Ph.D. in Nutritional Sciences)

Complete faculty listing by department: [Follow this link](#).

The Food Science and Human Nutrition Department (FSHN) is one of the world's largest combined academic programs where food science, nutritional sciences, and dietetics are all studied within one department. FSHN has nearly 30 full-time faculty members, 80 graduate assistants, and close to 1,000 undergraduate students. Our programs are accredited by the [Institute of Food Technologists](#) (IFT) and the [Academy of Nutrition and Dietetics](#). After completing undergraduate degrees, our students typically move on to professional employment, further education or training in food or nutrition graduate programs, or on to professional school programs. We have a strong record of excellent placement of our graduate students in industry and professional organization employment positions, as faculty members at colleges and universities, or in postdoctoral training experiences.

Our faculty has trained at institutions from around the world; they have been widely successful in their teaching, research, and extension efforts. Throughout our programs in food science, nutrition, and dietetics, our faculty is recognized nationally and internationally as experts in their respective fields.

The Food Science and Human Nutrition Department offers programs leading to the degrees of Master of Science in Food Science and Human Nutrition, Doctor of Philosophy in Food Science, and Doctor of Philosophy in Nutritional Sciences (offered under the auspices of the [Center for Nutritional Sciences](#)). Minimum requirements for these degrees are located in the Graduate Degrees section of this catalog.

For more information please click the links to the program pages below, or see our website: <http://fshn.ifas.ufl.edu>.

Horticultural Sciences Department

[College of Agricultural and Life Sciences](#)

Chairs : K.M. Folta (Interim Chair, Horticultural Sciences) and W. Mackay (Environmental Horticulture)
Graduate Coordinator: G. A. Moore (Horticultural Sciences) and L. Trenholm (Environmental Horticulture)

Complete faculty listing: [Follow this link](#).

The Horticultural Sciences Department Graduate Program at the University of Florida has a wide array of opportunities for graduate study.

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate

programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

The Horticultural Sciences Department offers a combined bachelor's/master's degree program. Please contact the graduate coordinator for information.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest. Details about the program and how to apply are listed on their website: <http://hos.ufl.edu>.

Microbiology and Cell Science Department

Chair: E. Triplett.

Graduate Coordinator: Tony Romeo.

Complete faculty listing by department: [Follow this link](#).

Graduate study is offered leading to the Master of Science and Doctor of Philosophy degrees in microbiology and cell science, with emphasis in one or more of the disciplines of biochemistry, cell biology, and microbiology.

Requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog and also at the Department webpage: <http://microcell.ufl.edu/>.

Instruction and guidance are collaborative among faculty in the Colleges of Agricultural and Life Sciences, Liberal Arts and Sciences, and Medicine.

Research spans broad areas in the cellular and molecular aspects of bacterial, plant, and animal life functions: Areas of research include microbial biochemistry, biotechnology; biomass conversion; genetic and metabolic regulation; environmental microbiology; cell biology; molecular biology; molecular genetics; genomics and bioinformatics; immunology; virology; parasitology, host-pathogen interactions; cellular ultrastructure.

Prerequisites for admission to graduate study, in addition to those of the Graduate School, are a broad educational background including mathematics, physics, and chemistry through organic, analytical, and physical chemistry; basic courses in biology, botany, and/or zoology; and at least one course in microbiology and biochemistry. An undergraduate major in biochemistry, physical or chemical science, engineering, or general biology may be an acceptable alternative to a degree in microbiology or cell science. Receipt of an advanced degree requires detailed knowledge in microbiology, biochemistry, and chemistry; undergraduate deficiencies may necessitate additional course work prior to entry into the graduate program.

In addition, the Microbiology and Cell Science Department also offers a combined B.S./M.S. program that allows qualified students to earn both the Bachelor's and Master's degrees with 12 credit hours of jointly counted course work. This program is considered a "4/1" because students may be awarded both degrees within a five-year period. For further information on this program, follow this link: <http://microcell.ufl.edu/graduate-program/combined-degree-program/>.

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Complete faculty listing by department: [Follow this link](#).

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Plant Pathology Department

Chair: R. Loria

Graduate Coordinators: J. Jones

Complete faculty listing by department: [Follow this link](#).

The Department of Plant Pathology offers graduate studies leading to the Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees. The Department also participates in the Doctor of Plant Medicine interdisciplinary professional degree.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

School of Forest Resources and Conservation

[College of Agricultural and Life Sciences](#)

Director: T. L. White.

Graduate Coordinator: T.V. Stein

Complete faculty listing by department: [Follow this link](#).

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Joint program: Students may simultaneously earn a juris doctorate from the College of Law and a graduate degree (M.F.R.C., M.S., or Ph.D.) in Forest Resources and Conservation.

Combined programs: The School offers a combined bachelor's/master's degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings

of 1 semester. Ph.D. students may pursue a co-major with the Department of Statistics (see below).

Concentration in geomatics: Students completing 15 or more credits with an SUR designation, as part of an SFRC graduate degree, may earn the concentration in geomatics. Geomatics is the collection, analysis, and management of spatial information and includes such fields as surveying, mapping, land tenure, cadastral systems, geographic information systems, and remote sensing.

Concentration in ecological restoration: This concentration is available to M.S. non-thesis students. To earn this concentration a student must complete Ecosystem Restoration Principles and Practice and four of the following courses: Ecological Distribution and Management of Invasive Plants, Ecology and Restoration of Invaded Ecosystems, Ecology and Restoration of Longleaf Pine Ecosystem, Watershed Restoration and Management, Natural Resource Policy and Administration, or Agroforestry in the Southeastern US. Ecological restoration seeks to return ecosystems to a close approximation of condition before a disturbance.

Statistics co-major: Ph.D. students with the School may elect the co-major offered jointly with the Department of Statistics. Students focusing on forest genetics, tree improvement, and other statistics-intensive aspects of natural resource management are potential candidates for this option.

Certificates: The School administers the Graduate Certificate in Agroforestry, and SFRC students regularly earn certificates in Geographic Information Systems and in Environmental Education and Communication. Requirements are described under *Interdisciplinary Graduate Certificates and Concentrations* in this catalog.

For additional information, please visit the School's web page at <http://sfrc.ufl.edu>.

For details on what terms courses will be offered, please visit <http://sfrc.ufl.edu/gradcourses.html>.

School of Natural Resources and Environment

Graduate coordinator: T. Frazer

Complete faculty listing by department: [Follow this link](#).

The University of Florida School of Natural Resources and Environment offers interdisciplinary coursework in the basic and applied science of ecology, the related social sciences, and sustainability, leading to M.S. and Ph.D. degrees. Choose from about 450 courses, 280 faculty advisors, and 44 participating departments. Research areas of ecology graduate students range across natural resource ecology, environmental policy and management, and sustainable development.

Environmental problems are fundamentally human problems and should be understood in terms of human motivations and actions in a biophysical context. Their solution requires holistic thinking about dynamic ecological systems and the social, economic, and political forces driving human action. To this end, the goal of the Interdisciplinary Ecology graduate program is to provide advanced training in ecosystems thinking and the main theories and methodologies of the biophysical and social sciences to foster integrative approaches to complex real-world problems. Interdisciplinary Ecology students are intensely interested in the sustainability problem, and they welcome the challenge of addressing it through more than one traditional discipline.

Soil and Water Science Department

Chair: K. Ramesh Reddy

Graduate Coordinator: Max Teplitski

Complete faculty listing by department: [Follow this link](#).

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The Department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Soil and Water are vital resources in urban, agricultural, and natural ecosystems. The Soil and Water Science Department (SWSD) provides highly visible leadership in teaching, research, and extension/outreach programs as related to improving the productivity of agriculture with environmentally sound management practices, improving water quality, and protection and conservation of natural resources. Our department is one of the few in the nation that offers a comprehensive research and educational programs (molecular to landscape level) involving terrestrial, wetlands and aquatic ecosystems of the landscape. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place-bound students. Our graduates and postdoctoral fellows are well placed at universities, state and federal agencies, and private industry.

The SWSD programs are designed to meet the changing needs of our clientele at state, national and international levels. To meet new challenges and explore new opportunities, the SWSD's research, teaching, and extension programs are focused in five areas, with broader implication to water quality, carbon sequestration, greenhouse gases, and climate change:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

The Department offers graduate level certificates in Biodegradation and Remediation, Sustainable Land Resource and Nutrient Management, Soil Ecosystem Services, and Wetland and Water Resource Management for both on-campus students and via distance education for place bound students (<http://soils.ifas.ufl.edu/academics/degree-certificates.shtml>).

An additional option offered by the Department is a combined bachelor's/master's degree program that permits a B.S. in Soil and Water Science or Interdisciplinary Studies – Environmental Management in Agriculture and Natural Resources and M.S. Degree to be completed in five years. Contact the graduate coordinator for more information.

For more information, please see the program page below and our website: <http://soils.ifas.ufl.edu>.

Wildlife Ecology and Conservation Department

[College of Agricultural and Life Sciences](#)

Chair: Eric C. Hellgren

Graduate Coordinator: Kathryn E. Sieving

Complete faculty listing by department: [Follow this link](#).

The Department of Wildlife Ecology and Conservation offers Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees in wildlife ecology and conservation. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Program emphases include wildlife biology, ecology, and management; landscape ecology and restoration; human dimensions; tropical and international conservation; and conservation education. Graduate students should have appropriate undergraduate training in the biological, social, and physical sciences including physics, chemistry, and mathematics. Students with inadequate backgrounds may be required to take (without credit at the graduate level) remedial undergraduate courses pertinent to their fields of interest.

For more information, please see our website: <http://www.wec.ufl.edu>.

College of the Arts

Dean: L. Lavelli

Complete faculty listings: [Follow this link](#).

The arts program at UF began in the 1920s to serve the state of Florida's needs. Meeting these needs over the past 80 years has propelled the college to excel on a national and international level and has defined its mission to provide instruction for students seeking professional careers in the arts. In addition to providing rich educational experiences and programs in the arts, the college brings national and international recognition to the university through the high-level professionalism associated with the faculty and alumni, and the competence of students and graduates.

For more information about the College of the Arts, please see our website: <http://www.arts.ufl.edu>

[Departments and Programs within the College of the Arts](#)

[College of the Arts Courses](#)

School of Art and Art History

[College of the Arts](#)

Director: Richard C. Heipp

Graduate Coordinator: Patrick Grigsby

Complete faculty listing [Follow this link](#).

The School of Art and Art History offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. The school also offers Master of Arts degrees in art education, art history, and museology (museum studies) and the Doctor of Philosophy degree in art history. Requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog, and information about each of these graduate programs can be found at the links below.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/art>

Digital Worlds Institute

[College of the Arts](#)

Director: James C. Oliverio

Graduate Coordinator: Marko Suvajdzic

Complete faculty listing: [Follow this link](#).

The Digital Worlds Institute exists to nurture leading edge education between the arts, communications, engineering and the sciences, utilizing advanced media systems and digital culture. By bringing together the diverse talents of University of Florida faculty, students, and staff in a multifaceted collaborative environment, the Institute serves as a platform for interdisciplinary research and teaching that would not have occurred within the confines of any one college or department. Through the use of interactive tools and technologies, the Institute promotes transdisciplinary creativity across classrooms, continents and cultures.

For more information, please see the program page below and our website: <http://www.digitalworlds.ufl.edu>.

Music Department

[College of the Arts](#)

Director: J. A. Duff.

Graduate Coordinator: L. S. Odom.

Complete faculty listing by department: [Follow this link](#).

The School of Music offers programs leading to the Master of Music degree in music and music education. Program concentrations in music include choral conducting, composition, instrumental conducting, musicology, ethnomusicology, music theory, performance, and sacred music. In addition, the School of Music offers the Doctor of Philosophy degree in music and in music education.

The Ph.D. program in music education emphasizes college music teaching. The Ph.D. program in music includes concentrations in:

- Music history and literature, with options in traditional musicology and ethnomusicology
- Composition, with options in acoustic and electroacoustic specialization

All Ph.D. students are encouraged to find opportunities to teach and lecture in their specializations; and with the assistance of their principal professors, to prepare papers, workshops, and clinics for presentation at professional conferences, in the public schools, and at colleges and universities. Students also are encouraged to publish their research in appropriate journals. Minimum requirements for the M.M. and Ph.D. degrees are given in the General Information section of this catalog. The week before classes begin, students must take placement examinations in music history and in music theory. Students wanting to study privately in a performance studio must be auditioned and accepted by the appropriate area faculty. Voice students must demonstrate appropriate skills in language and diction. All deficiencies must be remedied.

For more information, please see the program pages below and our website: <http://www.arts.ufl.edu/welcome/music>.

School of Theatre and Dance

Director: J. Dickey

Graduate Performance Program Coordinator: Ralf Remshardt

Graduate Design Program Coordinator: S. Kaye

Complete faculty listing by department: [Follow this link](#).

The graduate program offered by the School of Theatre and Dance leads to the degree of Master of Fine Arts in Theatre. Minimum requirements for this degree are given in the *General Information* section of this catalog.

The M.F.A. degree prepares students for professional entry in acting, production, or teaching. Placement in the M.F.A. program is determined by audition/portfolio review, academic credentials, and personal interview. Candidates for admission should have adequate training in theatre. Deficiencies may be corrected before beginning graduate study.

The program emphasizes the study and practice of theatre as an art and discipline. Students of acting and design study concepts of theatre together while working in their areas of specialization. Focus is on the collaboration and synthesis of theatre artistry. Each incoming class is composed of approximately 12 to 18 students in acting and all design areas.

The student's artistic and academic progress will be reviewed at the end of each semester. The *School of Theatre Handbook* gives details on the form and focus of each review. This information is online at <http://www.arts.ufl.edu/theatreanddance/pages/whatyouneedtoknow/downloads/downloads.asp>.

During the final year of study, each student must successfully complete the comprehensive examination and oral defense. The project in lieu of thesis includes research, analysis, rehearsal process, and evaluation. Development and execution of the project includes public performance (acting or design). The written document and oral defense of the project which follow must demonstrate the ability to communicate the creative process.

Graduate acting students audition for all departmental productions.

Warrington College of Business Administration

Dean: Jamie Kraft

Complete faculty listings: [Follow this link](#).

Graduate degrees offered by the Warrington College of Business Administration are the Doctor of Philosophy with major programs in business administration and in economics; the Master of Arts with major programs in economics, in international business, and in business administration with concentrations in insurance and marketing; the Master of Science with major programs in Information Systems and Operations Management (with a concentration in supply chain management), in finance, in management, in real estate, and in business administration, including concentrations in entrepreneurship, insurance, marketing and retail; the Master of Business Administration; and the Master of Accounting. Fields of concentration and requirements for the M.B.A. are given under [Graduate Degrees](#) of this catalog, as well as admission and degree requirements for the Ph.D., M.A., and M.S. degrees.

Master of Arts: The M.A. degree with a major in international business is designed to provide students with quantitative and application skills to be used in an international business setting. The program provides practical training with a brief study trip to a major international city, where students are required to participate actively in business tours and lectures. The students also have the opportunity to gain credits for the degree by studying at one or more foreign universities for a period of 2 weeks to 8 months.

Master of Science: The M.S. degree with a major in management targets students from nonbusiness backgrounds who would like to gain "core" business knowledge and application skills. Requirements span the traditional business disciplines to produce a sound knowledge base for students seeking a solid business foundation. Students are required to take such courses as accounting, finance, economics, entrepreneurship, management, marketing, organizational behavior, and statistics. Typical positions for graduates include managers, consultants, and analysts.

Doctor of Philosophy: For the Ph.D. in business administration, students must have a concentration in one of the following:

- Accounting
- Information Systems and Operation Management
- Finance
- Insurance
- Management
- Marketing
- Real estate and urban analysis.

Specific requirements for the various departments and specialties are given in the [Graduate Degrees](#) section in this catalog. (Requirements for the Ph.D. degree in economics are described under the *Economics* section of the catalog.) All candidates for the Ph.D. in business administration must satisfy the following general requirements:

Breadth requirement: All applicants for Ph.D. in the business administration program are expected to have completed prior business-related course work at either the advanced undergraduate or graduate level. Students entering without prior work are required to take a minimum of three graduate courses in at least two fields other than their chosen area of concentration. Most often, the appropriate courses will be found in the M.B.A. first-year core; the particular courses to be taken by a student will be decided in consultation with the student's academic adviser. After a student enters the Ph.D. program, the courses taken to satisfy the breadth requirement must be taken in the College of Business Administration.

Research foundations requirement: All students must complete a six-course research skills sequence that prepares them for scholarly research in their chosen area of concentration. Research foundations are defined as essential methodological tools (e.g., statistics, quantitative analysis) and/or substantive content domains (e.g., psychology, economics) outside the student's major field that are considered essential to conducting high quality research in the chosen field. The specific research skills required by each area of concentration can be found in the field descriptions in this Catalog.

Other requirements include satisfactory completion of graduate course work in the major field of concentration, as well as one or two minor fields designed to add depth to the student's research training. Minors are selected by the student in consultation with his or her advisory committee, and may be within or outside the College of Business Administration. Other requirements for the Ph.D. are given in the [Graduate Degrees](#) section of this catalog.

[Departments and Programs within Warrington College of Business Administration](#)

[Warrington College of Business Courses](#)

Fisher School of Accounting

[Warrington College of Business Administration](#)

Director: Gary A. McGill

Graduate Coordinators: Dominique DeSantiago, Stephen Asare

Complete faculty listing by department: [Follow this link.](#)

As a professional school in a major public research university, the Fisher School of Accounting (FSOA) is committed to scholarly research, teaching and service to advance knowledge and prepare future leaders for business, professional, and academic careers.

The Fisher School of Accounting offers graduate work leading to the Master of Accounting (M.Acc.) degree with a major in accounting, and the Ph.D. degree with a major in business administration and an accounting concentration. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below, or visit our website: <http://warrington.ufl.edu/accounting>

Economics Department

Chair: R. D. Blair

Graduate Coordinator: S. M. Slutsky.

Complete faculty listing: [Follow this link.](#)

The department offers the Master of Arts (thesis and nonthesis option) and Doctor of Philosophy degrees in economics with specializations in econometrics, economic theory, industrial organization, international economics, monetary economics, and public finance.

M.A. requirements: A minimum of 36 credits of course work is required for the M.A. with and without thesis. A maximum of six credits of the research course [ECO 6971](#) may be included for a master's degree with thesis. The following core courses are required: [ECO 7408](#) and [ECO 7404](#) or equivalent, [ECO 7415](#) or equivalent, [ECO 7115](#), and [ECO 7206](#).

Ph.D. requirements: Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) an acceptable score on the GRE, and (c) for nonnative speakers of English, an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

All core courses must be completed in the first year. In addition, students must complete courses in three fields of specializations and pass qualifying examinations in two of those fields.

Complete descriptions of the minimum requirements for the M.A. and Ph.D. degrees are provided elsewhere in this catalog.

Finance, Insurance, and Real Estate Department

Chair: Michael D. Ryngaert

Graduate Coordinator: Mahen Nimalendran

Complete faculty listing: [Follow this link.](#)

The Department of Finance, Insurance, and Real Estate offers graduate work leading to the Master of Science degree with major programs in finance and real estate; the Master of Science in Entrepreneurship (M.S.E.); and the Doctor of Philosophy degree in business administration with a concentration in finance, insurance, quantitative analysis, or real estate. Complete descriptions of the minimum requirements for the M.S., M.S.E., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

Finance, Real Estate, and Entrepreneurship are also available as concentrations within the M.B.A. program. For information about the M.B.A. program, please consult that listing in the [Graduate Degrees](#) section.

For more information see the program pages below, and visit our website: <http://warrington.ufl.edu/departments/fire>.

Information Systems and Operations Management Department

[Warrington College of Business Administration](#)

Chair: Haldun Aytug

Graduate Coordinator: Praveen Pathak

Complete faculty listing: [Follow this link.](#)

The primary mission of the Department of Information Systems & Operations Management is a commitment to scholarly research, teaching and service to advance the state of knowledge in information systems and supply chain management and to train future leaders for professional and academic careers.

The Department offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Combined Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/isom>.

Management Department

[Warrington College of Business Administration](#)

Chair: Robert E. Thomas

Graduate Coordinator: Amir Erez

Complete faculty listing: [Follow this link.](#)

The Management Department offers graduate work leading to a Ph.D. degree with a major in Business Administration and a concentration in Management; a Master of Business Administration degree with a concentration in Management; a Master of Science degree with a major in Management; and a Master of International Business (M.I.B.). Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

The Department participates in combined bachelor's/master's degree programs for the Master of International Business (M.I.B.) and Master of Science (M.S.) with a major in management. The Master of International Business is open to students pursuing a bachelor's degree in a business discipline or minor in business administration. The M.S. with a major in management program is only open to non-business majors. Contact the graduate coordinator for information.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/mgt>.

Marketing Department

Chair: Joseph W. Alba

Graduate Coordinator: Lyle A. Brenner

Complete faculty listing: [Follow this link](#)

The Marketing Department at the University of Florida is a recognized leader in the discipline of marketing. For over a decade, our faculty has ranked as one of the most productive and influential in the field. Our faculty is known for conducting provocative, cutting-edge research that contributes both to the scientific understanding and practice of marketing. Our Ph.D. program has produced many leading researchers in the discipline. And the David F. Miller Center for Retailing Education and Research is known as one of the foremost centers for developing the science of retailing.

The Marketing Department offers graduate work leading to the Ph.D. degree in business administration, the M.S. degree in business administration, and a concentration in the Master of Business Administration (M.B.A.) program. Requirements for the M.B.A., M.S., and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/departments/mkt>.

College of Dentistry

Interim Dean: Boyd Robinson

Associate Dean & Director: Roberta Pileggi

Complete faculty listings: [Follow this link](#).

Advanced education has progressed over the years to be an integral component of the College of Dentistry, growing from six certificate residency programs, with an enrollment of only 36 students in 1979, to fourteen certificate programs and various fellowship programs. Enrollment is now over 140. In 1993, the college started master degree programs in endodontics, orthodontics, periodontics and prosthodontics, and continues today to grow.

Follow this link for more information about UF's College of Dentistry graduate programs: <http://admissions.dental.ufl.edu/advanced-graduate-programs/programs-application-process/>

[Departments and Programs within the College of Dentistry](#)

[College of Dentistry Courses](#)

Dental Sciences Department

[College of Dentistry](#)

Endodontics Chair and Graduate Coordinator: Roberta Pileggi

Orthodontics Chair and Graduate Coordinator: Calogero Dolce

Periodontology Chair: Ikramuddin Aukhil; Graduate Coordinator: Rodrigo Neiva

Restorative Dental Sciences Interim Chair: William Willis; Graduate Coordinator: Edgar O'Neill

Complete faculty listing: [Follow this link](#).

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1

The application deadline for Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402

Requirements for the M.S. degree are provided in the [Graduate Degrees](#) section of this catalog.

For further information, see the Dental Science program link below.

College of Design, Construction, and Planning

Dean: C. Silver

Complete faculty listings: [Follow this link.](#)

DCP is home to five independent professional disciplines: architecture, construction management, interior design, landscape architecture and urban and regional planning. The college also is home to an interdisciplinary program in historic preservation, which allows graduate students to gain expertise in research and application of historic preservation in the United States and abroad.

Accreditation and Degrees

The academic programs in the college have an accreditation process from the professional organizations of each discipline.

- Architecture – National Architectural Accrediting Board
- Construction Management – American Council for Construction Education
- Interior Design – Foundation for Interior Design Education Research
- Landscape Architecture – American Society of Landscape Architects
- Urban and Regional Planning – Planning Accreditation Board

DCP offers both undergraduate and graduate degrees and programs. Through its academic units, the college offers doctoral, master's, and bachelor's degrees, as well as distance education programs, combined degrees, joint degrees, certificate programs, and academic minors.

College Institutes, Centers and Programs

Research and service projects conducted through the research centers and institutes often entail multidisciplinary, cross-campus student input and effort. Each division of the college is involved in on-going projects that advance both scholarly study and professional practice. The college contributes to community, state, regional and national efforts to conserve and improve the quality of the natural and built environments through its research centers. The college's teaching and research programs have national and international prominence.

For more information, please see our website: <http://www.dcp.ufl.edu>

[Departments and Programs within the College of Design, Construction, and Planning](#)

[College of Design, Construction, and Planning Courses](#)

School of Architecture

Director: M. Gold.

Graduate Coordinator: N. M. Clark.

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization in this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, Box 115701.

Master of Architecture: The School of Architecture offers graduate work leading to the first professional degree, Master of Architecture. During graduate studies, each student has the opportunity to focus on one or more areas, including design, history and theory, urban design, preservation, structures, and technology. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design. The student's overall college experience, both undergraduate and graduate programs, is intended to be a complete unit of professional education leading to practice in architecture or related fields.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Florida School of Architecture offers the following NAAB-accredited degree programs:

Master of Architecture (pre-professional degree + 52 graduate credits) Master of Architecture (professional degree + 30 graduate credits) Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits)

Master of Architecture (pre-professional degree + 52 graduate credits): For those students who have a 4-year baccalaureate degree from an accredited architectural program, 2 years in residence (52 credits) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. Course sequences in history and theory, technology, structures, and practice must also be completed.

Master of Architecture (professional degree + 30 graduate credits): For students who have a baccalaureate degree with an architecture or related major (interior design, landscape architecture) and who have completed 4 or 6 architecture or design studies courses, three years of residence (83 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. ARC 4073, ARC 4074, [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. (Undergraduate courses 3000 and 4000 level in the major do not count toward the minimum requirements for the graduate degree.) Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits): For students with a baccalaureate degree in a nonrelated academic area and have completed fewer than 4 design studies courses, 4 years of residence (112 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. ARC 4071, ARC 4072, ARC 4073, ARC 4074, [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or project. Undergraduate courses 3000 and 4000 level in the major do not count toward the 52-hour minimum requirements for the graduate degree. Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Accredited 5-year professional base: For students with a baccalaureate degree in architecture from an accredited 5-year professional degree program, a 1-year degree program is available. In these cases, a specialized curriculum is developed that complements the needs of the applicant. Minimum registration is 30 credits; however, the minimum may increase if transcript reviews show that further course work is needed to meet registration and curriculum requirements. [ARC 6356](#) is a prerequisite for the thesis or master's project.

Most states require individuals intending to become architects to hold an accredited degree. The National Architectural Accrediting Board acknowledges two types of degrees: the Bachelor of

Architecture (minimum 5 five years of study); and the Master of Architecture (minimum 3 years of study after an unrelated bachelor's degree, or 2 years after a related pre-professional bachelor's degree). These professional degrees educate those who aspire to registration and licensure to practice as architects.

Student work: The College may retain student work for the purpose of record, exhibition, or instruction.

Master of Science in Architectural Studies: The M.S.A.S. is a nonprofessional degree for advanced investigations in specialized areas of architectural history, architectural pedagogy, theory, technology, design, preservation, or practice. Students with a bachelor's degree in any discipline from an accredited university are eligible to apply to this program; the proposed area of focus should be precisely defined in the application. This is a 3- to 4-semester program (32 hours minimum) that includes a thesis. (No more than 6 hours of ARC 6971 may be counted in the minimum credit hours for the degree.) Interdisciplinary study is encouraged. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design.

The School sponsors special curricula in architecture to enhance the academic program. *Preservation Institute: Caribbean, Preservation Institute: Nantucket, and Vicenza Institute of Architecture (Italy)* accepts students from the University of Florida, and also from academic circles throughout the United States and the world for year-round study. Any student in a graduate architecture program at the University of Florida may apply for one or more of these programs.

Requirements for the M.Arch., M.S.A.S., and Ph.D. degrees are described in the *General Information* section of this catalog.

The School also participates in a program granting an Interdisciplinary Concentration and Certificate in Sustainable Architecture. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Applications: All applications for fall term graduate admission (including official transcripts, GRE scores, and TOEFL scores, if necessary) must be received by the Office of the Registrar by January 15. In addition to satisfying University requirements for admission, applicants are required to submit to the Graduate Program Assistant, School of Architecture, 231 ARCH, Box 115702, the following: a portfolio of their creative work; a scholarly statement of intent and objectives; and three letters of recommendation. This material must be received by January 15 to be considered for admission in the next fall term. Students may apply after the January 15 deadline but will only be considered if spaces become available. (Updates of portfolios are accepted after January 15; however, applications will not be considered until they are complete.)

The School reserves the right to retain student work for purposes of record, exhibition, or instruction. Field trips are required of all students; students should plan to have adequate funds available. It may be necessary to assess studio fees to defray costs of base maps and other generally used materials.

M.E. Rinker, Sr., School of Construction Management

Director: Robert Ries

Director of Master's Programs: Robert E. Minchin

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary doctoral program in design, construction, and planning. Areas of specialization in the program include architecture, construction management, interior design, landscape architecture, and urban and regional planning. Within the area of construction management, specialization options include sustainable construction, information systems, construction safety, affordable housing, productivity, and human resource management. These specializations prepare students to assume college-level faculty positions and industry research positions in construction management and the building sciences. For more information on the Ph.D. program, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701. For information on the specializations in the Rinker School of Construction Management, write to the Director of Graduate and Distance Education, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703.

The M.E. Rinker Sr. School offers courses leading to the degrees of Master of Science in Construction Management (thesis), Master of Construction Management (nonthesis), and Master of International Construction Management (nonthesis distance education program for experienced professionals). An individual plan of study is prepared for each student to insure that the student's goals are achieved within the broad policy guidelines of the Rinker School. Specialization may be in such areas as construction management, sustainable construction, information systems, construction safety, and construction law. Requirements for the M.B.C., M.S.B.C., M.I.C.M., and Ph.D. degrees are given in the General Information section of this catalog.

Master of Construction Management (M.C.M.) or Master of Science in Construction Management (M.S.C.M.): To be eligible for admission to the M.C.M. or M.S.C. programs, a student must hold a 4-year undergraduate degree in building construction or its equivalent in related fields. "Equivalent in related fields" should include studies in construction materials and methods, structures, and management. Students with deficiencies in these related fields may need longer residence for the master's degree, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement.

No more than 3 credits of [BCN 6971](#) may be used to satisfy the credit requirements for the M.S.C.M. degree without written permission of the Director of Master's Programs.

Master of International Construction Management (M.I.C.M.): This program prepares students to assume upper-level management responsibilities in a multinational company. To be eligible for admission to the M.I.C.M. program, a student must have

- A 4-year undergraduate degree
- At least 5 years of meaningful, supervisory-level construction management experience
- Acceptable GRE scores (verbal and quantitative)
- A grade point average of 3.0 on a 4.0 scale
- Employer sponsorship
- International students must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

No more 3 credits of [ICM 6934](#) may be used to satisfy the credit requirements for the M.I.C.M. without written permission of the Director. All candidates are required to take ICM 6930. In addition to these 6 research-oriented graduate credit hours, the student selects one or two areas of emphasis and then takes the rest of the required 33 credit hours from the remaining courses and special electives. All candidates are required to pass a comprehensive oral and/or written examination at the completion of the course work and their master's research report/project.

The M.E. Rinker Sr. School reserves the right to retain student work for purposes of record, exhibition, or instruction.

Research facilities: The Shimberg Center for Housing Studies, operating within the School, researches the problems and possible solutions associated with developing and producing affordable housing. The Powell Center for Construction and the Environment conducts research on implementing sustainability in creating, operating, and constructing a built environment. The Fluor Program for Construction Safety researches and disseminates information on matters related to construction safety and health. The Center for Advanced Construction Information Modeling educates members of the AECO industry about new and emerging technologies in virtual design and construction.

Combined program: The School offers a combined bachelor's/master's degree program. Contact the Director of Master's Programs for information.

For more information, please see our website: <http://www.bcn.ufl.edu>.

Interior Design Department

Chair: M. Portillo.

Graduate Coordinator: N. Park

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy:

The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Interior Design:

The Master of Interior Design (M.I.D.) provides opportunities for students to direct their attention toward a variety of topics, including

- Design pedagogy and processes
- Sustainable, safe, and secure environments
- Creative performance and innovation
- Built heritage conservation.

Regardless of the study emphasis selected by the student, the M.I.D. program has a central focus with three categories of course work:

- Design studio
- Seminars in current interior design topics
- Theories and methods of research.

All M.I.D. students must complete an approved research topic with a written thesis. Requirements for the M.I.D. and Ph.D. degrees are given in the *General Information* section of this catalog.

Applications:

All applications must include acceptable GRE scores, transcripts for all previous academic work, and if the applicant's native language is not English, a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute. This information must be received in the Office of the Registrar by February 2. In addition to satisfying University requirements for admission, the applicants are required to submit to the Graduate Program Assistant, Department of Interior Design, 336 Architecture, P.O. Box 115705, University of Florida, Gainesville, FL 32611-5705, the following

- A portfolio of your design work (if applicable). The portfolio must be accompanied by a self-addressed, stamped envelope.
- A written essay on your goals and aspirations related to graduate studies
- Three letters of recommendation.
- A personal interview is not required, but many applicants choose to visit the campus and Department as a part of the application process.

Students enrolled in the Bachelor of Interior Design program at the University of Florida may apply to the M.I.D. program during their junior year (see below).

The Department reserves the right to retain student course work for the purposes of record, exhibition, or instruction. Field trips are required for all students; students should plan to have adequate funds available. Students are required to purchase a computer for course work. It may be necessary to assess studio fees to defray costs of base maps, plans, and other generally used materials.

Admission: Applications are processed through February 2 for fall term and all applicants are encouraged to apply as soon as possible. Admission decisions are made between February and the end of April. All new students begin their studies in the fall to coincide with curriculum sequencing.

Graduate course requirements according to background: After assessment of previous design work, leveling courses may be required to prepare the student for the M.I.D. 36 hours of graduate course work. Therefore, each student entering the Master of Interior Design program works with the graduate coordinator to evaluate the student's unique background to determine the specific courses needed to facilitate interest and experience. Estimated credit hours and length of study time vary according to each student's individual baccalaureate degree and experience.

There are four options.

- For students enrolled in the Bachelor of Design program at the University of Florida, 12 hours of graduate-level course work in the senior year can be counted for both the undergraduate and the M.I.D. degrees. An additional 24 graduate credit hours are required. Expect at least 1 additional year to complete the M.I.D.
- For students who graduated from a Council of Interior Design Accreditation (CIDA) accredited first professional degree program within an architectural framework, the course of study is estimated to be 36 graduate credit hours. Expect 2 years to complete the M.I.D.
- For students who graduated from a design-related (architecture or interior design) baccalaureate degree program, the course of study is estimated to be a maximum of 59 graduate credit hours (includes the 36-hour M.I.D.). Expect 3 years to complete leveling courses and the master's degree.
- For students with a bachelor's degree in a field other than design, the course of study is estimated to be 86 undergraduate and graduate credit hours. Expect 3 to 4 years to complete leveling courses and the M.I.D.

Estimates of the number of credit hours and length of study time may be adjusted based on the individual student's previous preparation including experience as a practicing designer, architect, or other professional.

Program requirements: After leveling courses are completed and with approval by the graduate coordinator and supervisory committee chair, a student completes 24 hours of departmentally approved graduate work in the Department of Interior Design. In addition, with the graduate coordinator's approval, the student is required to take 3 hours of course work in graduate statistics and 9 hours of multidisciplinary graduate electives that reinforce and extend the research.

Courses from such academic units as Psychology, Anthropology, Sociology, Engineering Education, and Business Administration provide possible electives. The College of Design, Construction and Planning offers the Certificate in Historic Preservation. If the focus of a student is the renovation and preservation of built environments, then historic preservation courses leading to a certificate would strengthen the research and design effort. Likewise, existing appropriate courses in Architecture, Landscape Architecture, Urban and Regional Planning, and Building Construction offer both collaborative study and research opportunities for M.I.D. students.

Each student must select a two-member supervisory committee to guide course selection and to guide thesis selection, study, and production.

Landscape Architecture Department

[College of Design, Construction, and Planning](#)

Chair: Gina Gurucharri

Graduate Coordinator: Kevin Thompson

Complete faculty listing by department: [Follow this link](#)

The mission of the Department of Landscape Architecture is to advance the ethical, creative, and skillful application of the art and the science of planning and designing urban, rural and natural environments. The Master of Landscape Architecture seeks excellence through professional practice and service, and through research and scholarly pursuit.

Interstate field trips are required as a part of the normal program curriculum. Students should plan to have adequate funds for field trips and for studio materials. Students are also required to

own a laptop computer meeting minimum department requirements. These specifications are available through the department of Landscape Architecture's website at URL: <http://www.dcp.ufl.edu/landscape>.

The Graduate program in Landscape Architecture offers flexibility in meeting the needs of applicants with varied backgrounds. Students entering the graduate program in landscape architecture follow one of the four following tracks:

Pre MLA Program

Graduate students who do not possess an LAAB accredited professional degree in landscape architecture are invited to enroll in the Pre MLA program.

The Pre MLA Program aids the development of basic analytical, design and graphic skills. Upon successful completion of the Pre MLA Summer term, students advance into a two-semester sequence of articulation courses that provide a foundation of applied landscape design and planning theory as well as competencies in landscape construction.

MLA Advanced Graduate Studies Program

Graduate students having completed the Pre MLA program or entering the MLA program with an LAAB accredited professional baccalaureate degree in Landscape Architecture commence a two year program of advanced graduate coursework towards the completion of the MLA degree.

MLA Program + Construction

Graduate students with a non-accredited or non-LAAB accredited degree in Landscape Architecture may apply directly to the MLA program but may be required to take additional coursework to develop core competencies required for advanced graduate study.

MLA Research Degree

Graduate students with an LAAB accredited professional degree in Landscape Architecture and a significant history of achievement in professional practice may tailor a program of advanced study to meet their specific needs. Proposals for the MLA Research Degree option are reviewed by the Graduate Coordinator and an approved course of study is determined through consultation with the Graduate Committee.

The normal tenure of advanced graduate study is five semesters which includes a summer semester internship. Students complete a minimum of 52 credit hours composed of lecture courses, seminars, design and construction studios, internship and individual study (special studies, supervised research and thesis or terminal project).

This time period would be extended should a student elect to expand the course work or seek a concurrent degree in a related field.

Design studios: Graduate design studios build on required lecture and seminar courses. A core of three advanced design studios are topically-oriented focusing on issues of human, ecological and regional concern. Each studio requires students to engage a method appropriate to the studio's selected projects, to analyze the findings generated by this research and to use the findings to build a rational argument that leads to a defensible design position. Interdisciplinary and multidisciplinary collaborations are encouraged on both a formal and an informal basis. Graduate studio projects also deal with current issues related to the mission of the Department with an additional focus on research and community service.

Thesis or terminal project: The Department recognizes that students have different professional goals and personal strengths and interests. A thesis is appropriate for students interested in further research or teaching, or in pursuing advanced degrees. A project (with a significant research component) is appropriate for students interested in design or project-oriented aspects of landscape architecture, or if their specific areas of interest suggest a nontraditional approach.

Programs, centers, and institutes: The College of Design, Construction, and Planning has several research centers and institutes. The course work and summer sessions afforded by these programs offer both required and elective course work for graduate students in landscape architecture:

The Center for Landscape Conservation Planning: The Center for Landscape Conservation Planning conducts applied research on the relationship between conservation and land use while providing learning opportunities for students.

The Center for International Design and Planning: The Center for International Design and Planning conducts interdisciplinary research with a focus on emerging design and planning trends in an era of globalization with a focus on resilient development systems and adaptive design and planning strategies.

The Preservation Institute: Nantucket gives students an opportunity to receive specialized educational experience in a broad range of preservation topics using Nantucket as a resource for case-study projects.

The Preservation Institute: Caribbean gives students an opportunity to conduct and apply research regarding the conservation of the rich cultural traditions of the Greater Caribbean basin.

The GEOPLAN Center is dedicated to the development of geographic and spatial information systems. Graduate students receive instruction in geographic information systems and are involved in a multidisciplinary studio that applies the tools and systems understanding afforded by GIS.

Graduate advisement: Students are initially advised by the Graduate Coordinator. He or she has guided the student's application through the acceptance process and is familiar with the student's background and needs. A plan of study is developed that includes required and optional courses. By the end of the second semester of study, each student is required to form a supervisory committee composed of two faculty members. The primary purpose of the graduate committee is to advise the student on educational objectives and the thesis or terminal project course work.

Application Procedure

Details of application procedure are found on the Department of Landscape Architecture's website. Applicants are encouraged to familiarize themselves with the details of the application procedures and the application requirements. Applications will ONLY be considered for the track for which they have been submitted. Make certain you are applying to the correct track based on your background and credentials and the criteria detailed above.

Application Dates

Applications are to be completed and submitted prior to the deadline noted on the Department's website. Unless otherwise noted, international applications must be received by November 1st. Applications from within the US are to be received no later than February 1st. Early applications are encouraged.

Application materials to be submitted online and/or to the Office of the Registrar

Application materials include the online application form accompanied by official transcripts, Letters of Recommendation, GRE scores, and TOEFL scores (applicants with English as a second language) to Office of the Registrar: Admissions Section, Criser Hall, University of Florida, Gainesville, Florida 32611.

Application Materials to be submitted directly to the Department

In addition to the materials submitted to the registrar's office, applicants must also submit a letter of intention to the Department of Landscape Architecture (Graduate Program Assistant).

Application Portfolio

All applicants are encouraged to submit a portfolio of creative works.

Post professional degree applicants applying for either the Pre MLA Fall Start or MLA Advanced Graduate Study program are required to submit a portfolio that both exhibits creative work experience and shows evidence of acquired technical proficiencies in the practice of landscape architecture.

All portfolio must be digital. PDF is preferred.

Application Status

Applications will be processed once all material has been received and must be complete prior to the application deadline. Applicants will be contacted by the Program Assistant if their application is incomplete. Please respond quickly if you have been contacted to increase the chances of your application being considered in the current review period. Only completed applications will be processed for review.

Once the application has been processed for review, applicants will receive written notification of their application status, generally sometime in the middle of March. Please do not contact the department with inquiries of your application status prior to the end of March.

Preparatory courses (see Undergraduate Catalog): LAA 2330, LAA 2350, LAA 2360, LAA 2370, LAA 3420, LAA 3350, LAA 3352, LAA 3421, LAA 3550, [LAA 6716](#), and ORH 3513.

Urban and Regional Planning Department

Director of School of Landscape Architecture and Planning: Kristin Larsen

Chair: Joseli Macedo

Graduate Coordinator: Stanley Latimer

Graduate Coordinator of Online Degree program: Ferdinand Lewis

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy: The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in Design, Construction, and Planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Arts in Urban and Regional Planning: The Department of Urban and Regional Planning offers graduate work leading to the degree of Master of Arts in Urban and Regional Planning (M.A.U.R.P.). Students are encouraged to enter the program in the fall semester. The program is usually completed in two academic years. The student entering with an undergraduate degree and no graduate study must complete 52 hours of credit for the M.A.U.R.P. degree. Students who have a master's degree in a related field may transfer up to 18 graduate semester hours toward the 52 hour requirement. Such a transfer of credit requires the approval of the Department. The Department encourages students with any undergraduate degree who are interested in the field of planning to apply for admission.

Complete descriptions of the requirements for the M.A.U.R.P. and Ph.D. degrees are provided in the *General Information* section of this catalog.

The urban and regional planning curriculum is designed to provide a set of core studies and contextual projects which prepare the graduate for the practice of planning in public or private agencies at both national and international levels. The core studies include history and theory of planning; planning methods; growth management at local, regional, and state levels; and related studies in community and regional social, natural, and economic systems. Contextual projects include, among many subject areas, urban design, transportation, regional planning, community redevelopment and preservation, housing, real estate, and economic development. The program emphasizes planning, policies, and design for the physical environment. Current specializations include growth management and transportation, urban design, housing, community and economic development, information technologies for planning, and environmental planning. Students are also encouraged to take advantage of the extensive faculty, course offerings, and other resources available in the College of Design, Construction, and Planning and throughout the University. The Department has two research centers: The Geo-facilities Planning and Information Center (GeoPlan), the Center for Building Better Communities (CBBC), and the Center for Health and the Built Environment (CHBE).

The curriculum is supported by an extensive GIS laboratory, and a visual aid library. Variation from the core studies may be approved by the Department if the student can demonstrate education and experience to the faculty that would support such an alternative. The M.A.U.R.P. degree is accredited by the Planning Accreditation Board, a joint undertaking of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning, for having achieved the highest applicable standards for graduate education in the field of planning. Graduates of the Department are prepared to practice urban and regional planning.

The Department of Urban and Regional Planning and the College of Law offer a joint degree program (see *Requirements for Master's Degrees* in the *General Information* section of this catalog). Areas of concentration with other programs in the Graduate School may be developed to meet the individual needs of students. In addition to course work the student is required to complete an internship with a public or private planning office and the student must complete a thesis.

The Department reserves the right to retain student work for purposes of record, exhibition, or instruction.

College of Education

Dean: G. Good.

Complete faculty listings: [Follow this link.](#)

Graduate study in education, allows individuals with bachelor's degrees in agriculture, business, education, engineering, mathematics, sciences, humanities, foreign languages, preprofessional studies and other fields to prepare for rewarding professional careers in education and related fields.

The College of Education offers 19 master's or specialist programs, 12 doctoral programs, and a J.D./Ph.D. program with the College of Law through its three schools: [Human Development and Organizational Studies in Education](#); [Special Education, School Psychology and Early Childhood Studies](#); and [School of Teaching and Learning](#).

Follow these links for more information about UF's College of Education graduate programs:

<http://education.ufl.edu/graduate-studies>

<http://education.ufl.edu/programs>

[Departments and Programs within the College of Education](#)

[College of Education Courses](#)

Human Development and Organizational Studies in Education Department

Director: Linda B. Eldridge

Graduate Coordinator: Patricia Ashton

Complete faculty listing by department: [Follow this link.](#)

Programs leading to the Master of Arts in Education (M.A.E.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees are offered through this school with programs in Counseling and Counselor Education, Educational Leadership, Higher Education Administration, Marriage and Family Counseling

Mental Health Counseling, Research and Evaluation Methodology, School Counseling and Guidance, and Student Personnel in Higher Education.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

More information can be found at our website: <http://education.ufl.edu/hdose>

Special Education, School Psychology and Early Childhood Studies Department

Director: Jean Crockett

Complete faculty listing by department: [Follow this link.](#)

The School of Special Education, School Psychology, and Early Childhood Studies offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 3 areas of specialization: Special Education; School Psychology; and Early Childhood Studies. Programs are accredited by the Florida Department of Education and approved by the National Council for Accreditation of Teacher Education (NCATE). The School Psychology program is approved by the NCATE and the National Association of School Psychologists (NASP). The Ph.D. program in School Psychology is accredited by the American Psychological Association (APA).

School of Teaching and Learning

Director: E. Bondy.

Graduate Coordinator: S. G. Terzian.

Complete faculty listing by department: [Follow this link.](#)

The School of Teaching and Learning (<http://education.ufl.edu/school>) offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis or project in lieu of thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees in curriculum and instruction. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 10 areas of specialization: curriculum, teaching, and teacher education; educational technology; elementary education; mathematics education; language and literacy education (including children's literature, English education, ESOL/bilingual education, language arts, and reading education); science and environmental education; social foundations of education; social studies education; and teacher leadership for school improvement.

The nationally recognized Proteach graduate program leads to the M.Ed. degree and state certification as a classroom teacher. Unified Elementary ProTeach admits undergraduates who complete the five-year program with a master's degree. Secondary Proteach (English, Science, Social Studies) prepares teachers who have completed a bachelor's degree in the discipline they will teach. Prospective elementary teachers who already hold a bachelor's degree in a non-education field may want to consider the School's SITE program (Site-based Implementation of Teacher Education), which leads to the M.Ed. degree in curriculum and instruction. Students may apply to the state for alternative certification.

Beyond the Graduate School and College of Education admission requirements, students should have academic preparation and teaching experience appropriate to the program being pursued. Students having deficiencies in their preparation will be required to follow a program to remove such deficiencies. A limited amount of support is available for graduate studies through fellowships, scholarships, research assistantships, and teaching assistantships.

College of Engineering

Dean: C. Abernathy

Complete faculty listings: [Follow this link.](#)

The College of Engineering is organized into a number of departments focusing on today's most pressing engineering questions. There is an interdisciplinary culture at the core of Gator Engineering, though, and researchers regularly collaborate with colleagues in departments and colleges beyond their own.

For more information, please see our website: <http://www.eng.ufl.edu>

[Departments and Programs within the College of Engineering](#)

[College of Engineering Courses](#)

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Biomedical Engineering Department

Chair: C. Schmidt

Graduate Coordinator: D. Hintenlang

Complete faculty listing by department: [Follow this link.](#)

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine. The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research. The BME Department currently focuses in: neural engineering, biomaterials, tissue engineering, biomechanics, nanomedicine, biomedical imaging and medical physics. A concentration in Medical Physics is available at both the M.S. and Ph.D. level and prepares students for clinical or research careers in medical imaging or radiation therapy. The Medical Physics concentration is fully accredited by CAMPEP. Additional information on admissions requirements, faculty, and research projects is available at: <http://www.bme.ufl.edu>.

BME graduate students are admitted directly through the BME Department. The BME Graduate Academic Committee reviews and makes all decisions regarding admission. Each student's research adviser must hold a Graduate Faculty appointment in the BME Department. Supervisory committees for BME students normally include at least one member from the College of Engineering and one from the College of Medicine to emphasize the need for a clinical focus in the research.

Chemical Engineering Department

Chair: R. Dickinson.

Graduate Coordinator: A. Chauhan.

Complete faculty listing by department: [Follow this link.](#)

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering

Civil and Coastal Engineering Department

Chair: K. Hatfield

Graduate Coordinator: A. Drescher

Complete faculty listing by department: [Follow this link.](#)

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in [CGN 6974](#) for civil engineering majors, or [EOC 6905](#) for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Computer and Information Science and Engineering Department

College of Engineering

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Electrical and Computer Engineering Department

Chair: J. Harris.

Graduate Coordinators: G. Bosman, J. McNair

Complete faculty listing: [Follow this link.](#)

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For more information about our program, please visit the link below.

Environmental Engineering Sciences Department

Director: K. Hatfield

Graduate Coordinator: P. Chadik

Complete faculty listing: [Follow this link.](#)

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering Systems Ecology and Ecological Engineering and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas. Please visit the link below for more

information about our program in Environmental Engineering Sciences.

Industrial and Systems Engineering Department

Chair: J. Geunes.

Graduate Coordinator: J. C. Smith and P. Momcilovic.

Complete faculty listing by department: [Follow this link.](#)

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Engineer degree and the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., Engineer, and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

Materials Science and Engineering Department

Chair: S. Phillpot

MSE Graduate Coordinator: J. J. Mecholsky, Jr.

NE Graduate Coordinator: E. Dugan

Complete faculty listing by department: [Follow this link.](#)

The Department of Materials Science and Engineering offers the Master of Science and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

The faculties of the Department of Materials Science and Engineering (MSE) of the University of Florida (UF) and the University of Roma Tor Vergata (URTV) have approved a cooperative degree program in Materials Science and Engineering culminating in a Doctor of Philosophy degree, awarded by both universities. Contact the Department for details.

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn

Graduate Coordinator: D. W. Mikolaitis

Complete faculty listing by department: [Follow this link.](#)

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), Engineer, and Doctor of Philosophy in aerospace engineering and mechanical engineering. Minimum requirements for these degrees are given in the *General Information* section of this catalog. Additional information can be found at <http://www.mae.ufl.edu/graduate>. Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of challenging problems. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Nuclear and Radiological Engineering Department

Chair: D. Hintenlang

Graduate Coordinator: W. Bolch

Complete faculty listing: [Follow this link.](#)

The Department offers the degrees of Master of Science, Master of Engineering, and Doctor of Philosophy in nuclear engineering sciences with emphases in nuclear power engineering, medical physics, and health physics. Complete descriptions of the minimum requirements for these degrees are provided in the *General Information* section of this catalog.

The medical physics and health physics options are offered through interdepartmental programs in cooperation with the College of Medicine (see the *Health Physics and Medical Physics* description under *Interdisciplinary Graduate Studies*).

Combined Program — The Department also offers a B.S.N.E./M.S. degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students may begin their master's program while seniors counting 12 hours of specified nuclear engineering sciences graduate courses for both the bachelor's and master's degree requirements. Seniors admitted to the combined program are eligible for teaching and research assistantships. Program admission requirements are (1) satisfaction of Graduate School admission requirements for a master's degree, (2) an upper-division (undergraduate) GPA of at least 3.6, and (3) completion of specified bachelor's degree requirements.

The graduate program has two major programs, Nuclear Engineering and Medical Physics. Specific areas of research and study in Nuclear Engineering include advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security. The Medical Physics program is a CAMPEP accredited program designed to meet the professional requirements for a career in clinical service or research and development. Areas of Medical Physics study and research include diagnostic medical imaging, radiation therapy, nuclear medicine imaging, and radiation dosimetry.

The requirement for admission to the graduate program in nuclear engineering sciences is a bachelor's degree in an approved program in engineering or in the sciences. Students applying to the Medical Physics program should have completed the equivalent of at least a minor in physics. If the student's background is considered deficient for the planned course of study, an articulation program of background courses will be required.

Depending on professional objectives, the student may select a non-thesis option for the MS degree and substitute 8 credits of graduate-level course work, of which at least 6 credits are in nuclear engineering sciences, including a 4-credit (minimum) special project, [ENU 6936](#). Completion of 32 credits will meet the minimum requirements for the non-thesis MS degree.

Normally, the requirements for a master's degree can be completed in 12 months. Students in the medical physics option usually take 21 to 24 months to complete the master's degree, which requires 40-42 credit hours. For a master's degree in health physics, a student must complete 42 hours of credit. If articulation work is required, it may take longer, depending upon the extent of the student's deficiency.

College of Health and Human Performance

Dean: M. Reid

Complete faculty listings: [Follow this link.](#)

Research and teaching in HHP has an impact on almost every aspect of the human condition. The college's four centers — the [Florida Center for Health Promotion](#), [Center for Exercise Science](#), and the [Eric Friedheim Tourism Institute](#) — as well as its three primary departments — [Applied Physiology and Kinesiology](#), [Health Education and Behavior](#), and [Tourism, Recreation, and Sport Management Department](#) — place the college firmly in a position to influence and improve an array of societal problems and challenges.

For more information about the College of Health and Human Performance, please see our website: <http://hhp.ufl.edu>

[Departments and Programs within the College of Health and Human Performance](#)

[College of Health and Human Performance Courses](#)

Applied Physiology and Kinesiology Department

Chair: S. Dodd

Graduate Coordinator: E. Christou

Complete faculty listing by department: [Follow this link.](#)

The **Ph.D. program** is offered with concentrations in biobehavioral science and exercise physiology. Students in the biobehavioral science concentration specialize in one of four areas: biomechanics, exercise / performance psychology, motor control / learning, or sports medicine. These interdisciplinary concentrations focus on preparing students as researchers with a blend of course work and research training.

A program leading to the **Master of Science** degree in applied physiology and kinesiology (thesis and non-thesis options) is also offered. Areas of concentration for the master's program include athletic training/sports medicine, biobehavioral science, clinical exercise physiology, exercise physiology, and human performance. The thesis option gives the student an opportunity to study, conduct research, and prepare a thesis in an area of special interest. The non-thesis option offers the student a specialization in a selected area of study, with additional work in other areas. A comprehensive written examination is required for this option, as is a capstone internship experience. Requirements for these degrees are given in the *General Information* section of this catalog.

Athletic training/sports medicine: This concentration provides comprehensive academic preparation, research, and clinical experience in the areas of injury prevention, assessment, treatment, rehabilitation, and therapeutic modalities.

Biobehavioral Science: This thesis mandatory concentration is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in one of several related disciplines: biomechanics, motor control and learning, and exercise and performance psychology. Each area of specialization is briefly described below.

- **Biomechanics:** The specialization in biomechanics draws from the fields of neuroscience, engineering, and medicine. The course work and training include kinematics and kinetics of movement. Course work also includes anatomy/kinesiology, biomechanics, engineering neuroscience, medicine, psychology, physical therapy, and statistics.
- **Motor learning / control:** This interdisciplinary specialization draws on experiences and a knowledge base in the movement and sport sciences, cognitive sciences, and physical therapy. Students are prepared to conduct research and provide expertise in traditional motor performance and learning settings.
- **Exercise / performance psychology:** This area of specialization provides the basis for understanding and influencing the underlying thought processes and attitudes that will ultimately determine the performance of individuals involved in sport, exercise, and other achievement oriented activities. The primary emphasis is to develop the scientific background and skills necessary for doctoral training and research.

Clinical exercise physiology: The purpose of this non-thesis program is to give students the opportunity to develop advanced knowledge and competencies in Exercise Physiology. Clinical Exercise Physiologists typically practice in hospitals, clinics and wellness centers as part of a health care team that administers tests and develops programs of exercise, counseling, and education for patients with cardiopulmonary, metabolic, and musculoskeletal diseases.

Exercise physiology: This thesis mandatory area of concentration is concerned with the scientific study of how the various physiological systems of the human body respond to physical activity. It is a multidisciplinary field with strong ties to the basic life sciences and medicine, and application to clinical, normal, and athletic populations.

Human performance: This non-thesis master's concentration merges a range of specializations within the Department into a curriculum that provides educational experiences to graduate students interested in studying the factors that determine human performance in both athletic and nonathletic domains. This flexible approach allows students to focus on specific applications

that best meet their individual interests. Human performance incorporates components such as nutrition, psychology, motor behavior, and physiology that are applicable to athletic and clinical populations.

Department of Health Education & Behavior

Chair: Jalie A. Tucker

Graduate Coordinator: Christine B. Stopka

Complete faculty listing by department: [Follow this link.](#)

The Department of Health Education & Behavior offers a Doctor of Philosophy (Ph.D.) in Health and Human Performance with a concentration in Health Behavior, a non-thesis 30-credit hour Master of Science and a 36-credit Master of Science (M.S.) in Health Education and Behavior. Requirements for the Ph.D. and M.S. degrees are given in the *General Information* section of this catalog.

The Ph.D. degree program trains health behavior researchers for academic positions in federal health agencies such as the Centers for Disease Control and Prevention and the National Institutes of Health for postdoctoral research fellowships and for the private sector.

The 30-credit hour, non-thesis M.S. degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector. Full-time students can complete this M.S. option in one year. This degree may also give students unique and distinguishing training experiences when applying to professional schools such as law, medicine, physician assistant, dentistry, chiropractic, osteopathy, nursing, occupational therapy, and physical therapy.

The 36-credit hour project in lieu of thesis, and the 36-credit hour thesis options are designed for students interested in developing research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically can complete these options in about 4 semesters.

The Department also offers an accelerated B.S./M.S. program in health education and behavior to enable students to receive both B.S. and M.S. degrees with a reduction of 12 credits (about one semester of course work).

Students who complete a graduate degree program in the Department of Health Education & Behavior acquire a range of skills required to research, plan, implement, and evaluate health promotion policies and programs aimed at improving the health and well-being of individuals, families, and communities. Specific skills include:

- Conducting needs and capacity assessments to identify health priorities
- Planning, implementing, and evaluating health promotion policies and programs
- Conducting research on questions associated with health problems and their determinants and health promotion policies and programs
- Administering and managing health promotion programs
- Advocating for health promotion policies and programs in schools, communities, health care facilities, and worksites
- Developing social marketing and health communication messages and campaigns
- Researching and developing social media and new media-based health promotion applications
- Serving as a resource person for health information and referrals
- Using a variety of teaching-learning strategies appropriate to the target audience and setting
- Writing scholarly and professional articles
- Working collaboratively with public and private agencies, nongovernmental organizations (NGOs) and the private sector to achieve the goal of a healthier population.

This degree prepares the health promotion specialists and health behavior scientists to work in:

- Local, state, and federal health, education and social agencies
- Nongovernmental health organizations
- Schools and universities
- Healthcare settings
- Private sector

Sample position titles for individuals with this degree include:

- Health education specialist
- Health promotion specialist
- Public health adviser or public health analyst
- Health promotion coordinator or health promotion consultant
- Campus health educator or patient health educator,
- Health communication specialist
- Wellness specialist
- Wellness promotion coordinator
- Prevention specialist

For additional information, visit <http://www.hhp.ufl.edu/heb>.

Tourism, Recreation, and Sport Management Department

[College of Health and Human Performance](#)

Chair: Michael Sagas.

Graduate Coordinator: Stephen Holland.

Complete faculty listing: [Follow this link.](#)

The degree Master of Science is offered by the Department of Tourism, Recreation, and Sport Management with programs in sport management and in recreation, parks, and tourism. Both programs offer thesis and non-thesis formats. The Department participates in the Ph.D. program in Health and Human Performance. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Master's program provides advanced preparation of tourism, recreation, and parks and sport management professionals for positions of leadership in planning, developing, administering and marketing of programs in a variety of employment settings; public and private. Concentrations of study may be developed in a number of areas, such as:

- Natural resource recreation management
- Tourism and commercial recreation
- Campus recreation

- Recreation administration and supervision
- Sport management

The Doctoral program is offered through the College of Health and Human Performance with concentrations in tourism; natural resource recreation and sport management. These interdisciplinary specializations blend course work and research. The curriculum is individualized, and applicants with degrees from unrelated fields can be accepted into the program. However, their previous work will be evaluated and their programs planned according to their individual needs, interests, and career objectives.

Combined program: The Department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of approximately one semester. Up to 12 approved graduate credit hours can be utilized toward both degrees.

MS/MSM Concurrent Degree Program: This joint degree program is offered through the College of Business Administration (Master of Science in Business Management [MSM]) and the College of Health and Human Performance's, Department of Tourism, Recreation and Sport Management (Master of Science in Sport Management [MS]). Applicants must apply to both programs and be admitted to both to participate. The MS/MSM is a non-thesis degree. The MS/MSM is designed for students who seek a graduate business degree and who lack the work experience necessary for admission to the MBA program. The MS/MSM curriculum is similar to the first year of the MBA program, giving students a good foundation in business principles. Concurrent degree students can share up to 9 credit hours of the same coursework towards both degree programs. They do not have to graduate during the same semester. Students admitted into the concurrent program must work closely with both departments to verify all requirements are being met during their course of study.

MS/J.D. joint program: This 98-credit-hour joint degree program culminates in the Master of Science and the Juris Doctor degrees. Applicants must meet the entrance requirements for the Department of Tourism, Recreation, and Sport Management and the College of Law. Admission to the second degree program is required no later than the end of the fourth consecutive semester after beginning one of the degree programs. The student's supervisory committee comprises faculty members from both the Department of Tourism, Recreation, and Sport Management and the College of Law. Students admitted into the joint program are permitted to share up to 12 credit hours of the same coursework towards both degree programs. Students must graduate during the same semester from both programs.

College of Journalism and Communications

Dean: D. McFarlin

Senior Associate Dean for Graduate Studies and Research: D. Treise

Graduate Coordinators:

(Advertising) J. R. Goodman
(International Communication) M. Leslie
(Journalism) R. Rodgers
(Public Relations) M.A. Ferguson
(Science/Health Communication) D. Treise
(Telecommunication) J. Cleary.

Complete faculty listings: [Follow this link.](#)

Through the Division of Graduate Studies and Research, the College of Journalism and Communications offers the Doctor of Philosophy degree, the Master of Arts in Mass Communication (thesis or project option) degree, and the Master of Advertising (thesis) degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Doctoral students work closely with faculty members in research leading to a dissertation embodying a humanities, law/policy, or social sciences approach. Emphases within these approaches for which faculty members have expertise include advertising, journalism, public relations, telecommunication, international communication, and political communication. Details of doctoral faculty research interests and other aspects of the program are given in the College's Ph.D. Handbook.

Master's students may complete a thesis in advertising, journalism, public relations, telecommunication, international communication, or science/health communication. With the approval of the Sr. Associate Dean of Graduate Studies and Research and other faculty members, master's students may develop an individualized program of study, with thesis, to meet their specific needs and interests. A project in lieu of thesis option is available for some specializations.

Mass Communication/Law joint degree programs: Programs leading to the Master of Arts in Mass Communication or the Doctor of Philosophy and the Juris Doctor are offered under the joint auspices of the College of Journalism and Communications and the College of Law. For students interested in scholarship or practice of communication law or in reporting on the law, the programs offer the opportunity to blend relevant work from the two colleges. Students must meet the entrance requirements of both colleges. A thesis or dissertation is required. Interested students should apply for admission to both the Graduate School and the College of Law, noting on the applications the joint nature of the admission requests. Further information on the programs and on application procedures is available from the Holland Law Center and from the Division of Graduate Studies and Research of the College of Journalism and Communications.

General admission: Admission is granted to applicants with and without background in mass communication. Students without academic preparation in mass communication or appropriate experience may be required to take articulation work. These courses are taken concurrently with general graduate courses, starting in the first term of registration. Some degree plans require a background course in statistics. Students who have satisfied that requirement must provide written verification. Including articulation courses, the master's degree normally can be earned in one and one-half or two years of full-time study. Doctoral studies require three or more years of full-time study and research. Students who may require articulation courses should contact the Sr. Associate Dean of Graduate Studies and Research.

Grading policy: Any student whose cumulative GPA falls below 3.0 will be placed on probation. Any doctoral student who receives one grade below B- or a Master's student who receives one grade below C+ will be placed on probation, with the exception of courses taken from the Levin College of Law. For these courses, any student receiving one grade below C in any course from the Levin College of Law will be placed on probation. A requirement of the probation is that the student must achieve or maintain a cumulative grade point average of 3.0 or higher at the end of the next academic term in residence. A student who fails to satisfy the requirement will be suspended. A Doctoral student who accumulates two grades below "B-" or a Master's student who accumulates two grades below C+ during graduate studies will be suspended, as will a student who receives one grade of "D+" or lower at any time. Students will be allowed only one suspension.

Combined degree program: The College offers a combined bachelor's/master's program. For information, contact the Associate Dean for Graduate Studies.

For additional information, please see our website: <http://www.jou.ufl.edu/grad>.

[College of Journalism and Mass Communication Courses](#)

Fredric G. Levin College of Law

Dean: R. Jerry II

Complete faculty listings: [Follow this link.](#)

The University of Florida Levin College of Law has a longstanding tradition of producing national leaders, including current American Bar Association President Stephen Zack, and is one of the nation's best values in legal education.

For more information, please see our website: <http://www.law.ufl.edu>

[Departments and Programs within Levin College of Law](#)

[Levin College of Law Courses](#)

Comparative Law Department

Director and Graduate Coordinator: P.A. Malavet.

Complete faculty listing by department: [Follow this link.](#)

The LL.M. in Comparative Law degree is designed for graduates of foreign law schools who want to enhance their understanding of the American legal system and the English common law system from which it evolved. Requirements for this degree are given in the *General Information* section of this catalog.

The program begins with Introduction to American Law, a 4-credit summer course that gives students a foundation in the American legal process. It also helps students acclimate to the College of Law and the University community before to the start of the academic year. During the fall and spring terms, and with the director's approval, students choose their remaining 22 credits from more than 100 Juris Doctor and LL.M. in Taxation courses and seminars. For admission information consult the *College of Law Prospectus* or write to the Comparative Law Office P.O. Box 117643, University of Florida, Gainesville, FL 32611-7643 USA.

Environmental and Land Use Law Department

Director and Graduate Coordinator: Christine A. Klein

Complete faculty listing by department: [Follow this link.](#)

Florida's sensitive, varied and beautiful natural environment makes the University of Florida a natural choice for students who want to focus on the national and global issues of land use and environmental law. Florida provides a perfect setting to study first-hand the efforts to reconcile growth and conservation.

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

For more information, please see the program page below and our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>.

Taxation Department

Chair and Graduate Coordinator: M. K. Friel.

Complete faculty listing by department: [Follow this link.](#)

Graduate study in the field of taxation leading to the Master of Laws in Taxation degree or to the Master of Laws in International Tax degree is available in the College of Law.

Applicants for admission to the Graduate School for these degrees must hold a law degree from an accredited law school or in the case of international students, from a recognized foreign university but need not submit scores on the Graduate Record Examination. For further information concerning admission consult the *Graduate Tax Program Catalog*, or write the Tax Office, 320 Holland Law Center.

College of Liberal Arts and Sciences

Interim Dean: David Richardson

Complete faculty listings: [Follow this link.](#)

The College of Liberal Arts and Sciences constitutes the intellectual core of the university. Its principal mission is to lead the academic quest to understand our place in the universe, and to help shape our society and environment.

For more information, please see our website: <http://www.clas.ufl.edu>

[Departments and Programs within the College of Liberal Arts and Sciences](#)

[College of Liberal Arts and Sciences Courses](#)

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Anthropology Department

Chair: S. deFrance

Graduate Coordinator: P. Collings

Complete faculty listing by department: [Follow this link.](#)

The Anthropology Department takes pride in maintaining a holistic perspective, bridging the four traditional fields that have composed the discipline: sociocultural, archaeological, biological, and linguistic anthropology. Both graduate students and faculty conduct research that cut across the four-fields, and extend anthropological investigations into other disciplines.

The graduate program is a mentoring program emphasizing the PhD degree. Students are mentored by faculty advisors, together with supervisory committees chosen by students with the advice of advisors. Graduate students are expected to be in residence to attend classes and seminars, and receive individualized training. Distance-education graduate degrees are not offered. Students formally report on their progress each year, and the progress of each graduate student is evaluated by the faculty in their primary field.

Students receiving graduate degrees are well-prepared intellectually and professionally for success in a wide variety of careers, and become leaders in developing the next generation of anthropology. The department offers teaching experience and resources for presenting conference papers, submitting grant proposals, conducting fieldwork, and other activities appropriate to their professionalization. Graduate students are welcome to contribute to discussions in departmental meetings, and serve on some departmental committees.

Astronomy Department

Chair: C. Telesco

Graduate Coordinator: V. Sarajedini.

Complete faculty listing by department: [Follow this link.](#)

The University of Florida's Astronomy Department is one of the largest in the country. Research is an integral part of the graduate program. Students have opportunities to work with faculty and staff on a broad range of astronomical problems using in-house, national and international, and ground- and space-based facilities. Support for graduate studies is available through fellowships, research assistantships, and teaching assistantships. For more information on the program, please follow the link below or visit [our website](#).

Biology Department

[College of Liberal Arts and Sciences](#)

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

Complete faculty listing by department: [Follow this link.](#)

The Department of Biology offers two graduate programs: Botany and Zoology. Both programs offer graduate work leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog

More information regarding these programs is available by following the links below and by visiting our departmental website: <http://www.biology.ufl.edu>.

Chemistry Department

Chair: W. Dolbier

Graduate Coordinator: B. W. Smith

Complete faculty listing: [Follow this link.](#)

The Department of Chemistry granted its first master's degree in 1909 and the first Ph.D. in 1930. Specializations in biochemistry, organic, physical, inorganic and analytical are offered with extensive interdisciplinary research opportunities (e.g., bio/nano-science, particle science, green chemistry, polymer chemistry, chemical physics, health related biochemistry, chemistry-engineering, and genomics).

The Department presently offers the Master of Science and Doctor of Philosophy degrees with a major in chemistry. The non-thesis Master of Science in Teaching degree is also offered with a major in chemistry.

Classics Department

Chair: Victoria Pagin.

Graduate Coordinator: Jennifer Rea.

Complete faculty listing: [Follow this link.](#)

The department offers the following degrees and programs: the Doctor of Philosophy in classical studies; the Master of Arts degree in classical studies or Latin; the Master of Latin degree, and the Master of Arts in Teaching degree in Latin. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

Within the Ph.D. program are three tracks:

- Philology (prepares students for careers in colleges and universities)
- Classical civilization (available via distance course work)
- Latin and Roman studies (available via distance course work).

Requirements for the philology track of the doctoral degree include:

- 60 credit hours after the M.A. (or a total of 90 credit hours)
- Five additional seminars after the M.A. in classics at the 500 level or higher
- Three of the following seminars: [GRE 6425](#), [GRW 6105](#), [LAT 6425](#), [LNW 6105](#), and [CLA 6805](#)
- A reading knowledge of two modern languages, one of which must be German
- Reading lists in Greek and Roman authors
- Supervised experience in teaching Latin, Greek, or civilization courses is advised
- Successful completion of a series of qualifying examinations appropriate to the chosen specialization (Greek reading: Latin reading: classical Greek literature in its historical context; classical Latin literature in its historical context; special author/topic)
- An oral preliminary examination, dissertation, and final examination

The M.A. degree in classical studies is recommended for students who plan to continue on to the doctoral level. The M.A. degree in Latin is recommended for students who plan to pursue a career in secondary teaching. Both M.A. programs require 30 credit hours, including 6 credits of [GRW 6971](#) or [LNW 6971](#), a thesis, and final examination.

The Master of Latin degree is a non-thesis degree, designed for currently employed and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education

in the field of classics, and enhance their professional qualifications through a program of summer course work and directed independent study and/or distance learning courses during the regular academic year. The Master of Arts in Teaching, a non-thesis degree, is offered with a program in Latin and is intended for students preparing to teach in community colleges or high schools.

Computer and Information Science and Engineering Department

[College of Liberal Arts and Sciences](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir.

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, Engineer, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Sociology and Criminology & Law Department

Chair: Barbara Zsembik

Graduate Coordinator: Barbara Zsembik

Complete faculty listing by department: [Follow this link.](#)

The Department of Sociology and Criminology & Law offers several programs of graduate study leading to the Ph.D. in Sociology, the Ph.D. in Criminology, Law and Society, the MA in Sociology, the MA in Criminology, Law and Society, and a Joint MA in Criminology/JD degree. The department also partners with the School of Natural Resources and Environment Department to offer the Ph.D. or MA in Interdisciplinary Ecology. Advanced undergraduate majors may complete a combined BA/MA degree in Sociology or a combined BA/MA degree in Criminology, Law and Society.

English Department

Chair: K. Kidd
Graduate Coordinator: S. I. Dobrin

Complete faculty listing by department: [Follow this link.](#)

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English, along with the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. For more information about our programs, please follow the hyperlinks below or visit our website: <http://www.english.ufl.edu/programs.html>.

Geography Department

Chair: M. W. Binford
Graduate Coordinator: C. J. Matyas

Complete faculty listing by department: [Follow this link.](#)

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

The focus of the Department is in human-environment interactions, with "environment" interpreted very broadly. The Department provides four main areas of specialization for graduate research: economic and cultural geography; resource management and land use and land cover change; medical geography; and physical geography. Economic and cultural geography concerns such topics as spatial economic theory and; housing and care of the elderly. Resource management and land-use and land-cover change focus on agricultural change and resource conservation and development in the tropics and subtropics, and rural and urban land use and land cover change in tropical and temperate regions. Africa and Latin America are the primary areas of regional emphasis outside of the U.S. Physical geography in the Department concentrates on climatology, fluvial geomorphology, and hydrology. Medical geography studies the geographic aspects of human health including disease ecology and transmission and healthcare issues. The Department's extensive geographic information system, remote sensing, and computer cartography teaching and research facilities contribute to and support all of the areas of research. Faculty from the Department are also major participants in the Emerging Pathogens Institute, Florida Climate Institute, Land Use and Environmental Change Institute (L.U.E.C.I.), and the Water Institute. Prospective students should examine the research interests of the Graduate Faculty to obtain a more detailed sense of the Department's specialties (see the departmental website: www.geog.ufl.edu).

To ensure the incorporation of relevant interdisciplinary perspectives in each student's program, the Department maintains close ties with other departments in Liberal Arts and Sciences, and with programs in African studies, Latin American studies, the School of Natural Resources and Environment, the Institute on Aging, urban and regional planning, tropical agriculture, tropical ecology, water resources, the Warrington College of Business Administration, the College of Agricultural and Life Sciences, College of Public Health and Health Professions, and the Hydrological Sciences Academic Cluster. Certificates in certain of these fields may be obtained in addition to graduate degrees in geography. Geography administers the Graduate Certificate in Applied Atmospheric Sciences.

A graduate student should preferably have an undergraduate major in geography, but applicants with degrees in one of the social or physical sciences are accepted into the Department's graduate program. Deficiencies in undergraduate work in geography must be corrected concurrently with registration in graduate level courses. All students in the graduate program are required to take courses in contemporary geographic thought and geographic research skills.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Geological Sciences Department

Chair: P. A. Mueller.
Graduate Coordinator: J. M. Jaeger.

Complete faculty listing: [Follow this link.](#)

The Department of Geological Sciences is composed of a group of internationally recognized faculty, graduate students, and dedicated support staff. Faculty and students in the Department of Geological Sciences are involved in exciting and groundbreaking research projects throughout the world and in Florida. The Department houses world-class analytical and computing facilities for research and teaching.

The Department has identified six primary areas of emphasis in its research and teaching programs: environmental geology and hydrology, paleoclimatology, tectonophysics, geochemistry and mineralogy/petrology, marine and coastal geology, and paleomagnetism. For more detailed information on current departmental activities, faculty, and research centers, see <http://web.geology.ufl.edu>. The Department has collaborative, interdisciplinary programs of study and research with the Florida Museum of Natural History, the Center for Wetlands Research, the Land Use and Environmental Change Institute (L.U.E.C.I.), and the hydrological sciences cluster.

History Department

[College of Liberal Arts and Sciences](#)

Chair: Sean P. Adams
Graduate Coordinator: Elizabeth Dale

The Department of History offers the following graduate degrees: Master of Arts with fields of specialization in African, Asian, European, Latin American, and United States history, and the Doctor of Philosophy with fields of specialization in African, European, Latin American, and United States history. In addition to materials required by the Graduate School for admission, applicants must send directly to the History Department the following evidence of aptitude and interest: Three recommendations, from persons competent to evaluate your potential for graduate work; A 3- to 5-page essay identifying your career goals and particular areas of interest; a sample of your written work in history. Interested students should consult the department web page for more information. □□

Department of Languages, Literatures and Cultures

Complete faculty listing by department: [Follow this link.](#)

Latin American Studies Department

Director: C. D. Deere.

Graduate Coordinator: R. F. Brown.

Complete faculty listing by department: [Follow this link.](#)

The Center for Latin American Studies offers the following graduate programs:

- Latin American Studies
- Sustainable Development Practice

Linguistics Department

Chair: F. McLaughlin

Graduate Coordinator: E. Potsdam

Complete faculty listing by department: [Follow this link](#)

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESOL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For detailed information on the program, please visit the link below. For further information on the program, including financial aid, please visit <http://lin.ufl.edu>.

Mathematics Department

Chair: D. Cenzler

Graduate Coordinator: J. A. Larson

Complete faculty listing: [Follow this link.](#)

The Department of Mathematics offers the degrees of Doctor of Philosophy, Master of Science and Master of Arts, and the Master of Arts in Teaching and Master of Science in Teaching each with a major in mathematics. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

Interdisciplinary Programs — The Department offers a co-major program in conjunction with the Statistics Department leading to the Doctor of Philosophy degree in mathematics and statistics. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Statistics, Industrial and Systems Engineering, and Finance, Insurance, and Real Estate Departments.

Combined Program — The Department has an accelerated bachelor's/master's program designed for superior undergraduate students who have the ability to pursue such a plan of study leading to the Master of Science or Master of Arts degree. The main feature of the program is that up to 12 semester hours of approved graduate level mathematics courses may be used as dual credit for both the undergraduate and the graduate degree. All other requirements for both the bachelor's degree and the master's degree must be met. For admission requirements for this program, see the undergraduate coordinator.

There are opportunities for concentrated study in a number of specific areas of pure and applied mathematics at both the master's and doctoral levels. The faculty directs studies and research in algebra, number theory, analysis, geometry, topology, logic, differential equations, dynamical systems, probability theory, numerical analysis, numerical optimization, approximation theory, combinatorial analysis, graph theory, computer applications, biomathematics, mathematical physics, inverse problems, and medical imaging. In addition to the requirements of the Graduate School, the minimum prerequisite for admission to the program of graduate studies in mathematics is the completion, with an average grade of B or better, of at least 24 credits of undergraduate mathematics, including a full year of calculus and three semesters of appropriate work beyond the calculus. The most appropriate courses for this purpose are advanced calculus, linear algebra and abstract algebra. Students lacking part of the requirements will be required to make up the deficiency early in their graduate work. Prerequisites to individual courses should be determined before registration by consultation with the instructor concerned. Some of the courses listed are offered only as needed. Since times of offering courses are estimated a year in advance, certain changes may be made if needs are known by the Department. The courses [MAA 5228](#), [MAA 5229](#), [MAS 5311](#), and [MAS 5312](#) are required for all advanced degree programs in mathematics. The requirements for the master's degree nonthesis option include a minimum of 32 semester hours of course work. Students pursuing the master's degree in mathematics must pass two comprehensive written examinations, one in algebra and one in analysis. Students pursuing the master's degree with a specialization in applied mathematics have two options: the examination option requires passage of the algebra and analysis examinations; the thesis option requires instead the preparation and oral defense of a thesis on original research conducted under the supervision of a faculty adviser. Students pursuing the Master of Arts in Teaching or the Master of Science in Teaching degree must prepare a teaching portfolio and pass an oral examination. Each of these programs normally requires two years for completion. The requirements for a doctoral degree include 36 hours of 6000-level course work in mathematics; no hours of teaching colloquium, dissertation, or individual work will count toward this requirement. To become a candidate for the doctoral degree, the student must pass a comprehensive preliminary examination with written and oral components administered by the Department. The doctoral student must also pass a reading knowledge examination in one of the following foreign languages: French, German, or Russian. The dissertation is an important requirement for the doctoral degree in mathematics. The topic for the dissertation may be chosen from a number of areas of current research in pure and applied mathematics. Every graduate student is expected to attend the regular colloquium. Details concerning all requirements for graduate degrees in mathematics may be obtained by writing the Mathematics Department Graduate Selection Committee or consulting the Department website, <http://www.math.ufl.edu>.

Philosophy Department

Chair: G. Witmer.

Graduate Coordinator: C. Liu.

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Arts and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog.

Admission to the program requires a bachelor's degree in philosophy or sufficient course work in philosophy, as determined by the department. Applicants are evaluated on the basis of academic achievement, GRE scores, three letters of recommendation, a statement of purpose, and a sample essay in philosophy. Students may be admitted as for a terminal M.A. degree or for the Ph.D. Program.

The M.A. degree requires two years (36 hours) of course work. All graduate students take foundational courses in their first four semesters: the graduate Proseminar (PHI [PHI 5935](#)), Graduate Logic (PHI [5135](#)), a course in Ancient Philosophy (PHP [5005](#) or PHP [5015](#)), a course in Modern Philosophy (PHI [5405](#) or PHI [5406](#)), and either Foundations of Analytic Philosophy (PHP [5785](#)) or Epistemology (PHI [5365](#)).

The Ph.D. requires 90 credit hours, which may include 36 used as credit for the M.A. In addition to the foundational courses required for the M.A., the Ph.D. requires Ethical Theory (PHI [5665](#)) and both of PHP [5785](#) and PHI [5365](#). It also requires six courses at the advanced 6000-level, 3 proposal research hours and 12 doctoral research hours, and of course the successful completion and defense of a dissertation.

Further information about the department's programs and admissions can be obtained on the department's website web.phil.ufl.edu or by contacting the Graduate Coordinator, 330 Griffin-Floyd Hall, (352)392-2084 or gradcoord@phil.ufl.edu.

Physics Department

[College of Liberal Arts and Sciences](#)

Chair: Kevin Ingersent

Graduate Coordinator: Guido Mueller

Complete faculty listings: [Follow this link.](#)

The Department of Physics offers the Master of Science (thesis or nonthesis) and the Doctor of Philosophy degrees. The nonthesis Master of Science in Teaching is also offered. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Areas of specialization for graduate research include astrophysics and cosmology, atomic and molecular physics, biological physics, chemical physics, condensed matter physics (theory and experiment), nuclear physics, particle physics (theory and experiment), statistical physics, and low temperature physics.

Special interdisciplinary research programs include the Institute for Fundamental Theory (carried out jointly with the Department of Mathematics), the Institute for Theoretical and Computational Studies in Molecular and Materials Science (carried out jointly with the Department of Chemistry), the Institute of High Energy and Particle Astrophysics, and Microfabitech (jointly with the College of Engineering). A curriculum is offered by the Center for Chemical Physics for students interested in research related to chemistry or chemical engineering. The Center for Condensed Matter Sciences provides opportunities for investigations in a diverse range of subjects and fields, including the Microkelvin Research Laboratory. The University of Florida operates the National High Magnetic Field Laboratory jointly with Florida State University and Los Alamos National Laboratory.

The core curriculum is designed to provide a thorough foundation for all physics graduate students. It consists of [PHY 6246](#), [PHY 6346](#), [PHY 6347](#), [PHY 6536](#), [PHY 6645](#), and [PHY 6646](#). Doctoral students must achieve a 3.30 GPA in the core curriculum. All students must pass a preliminary examination at the undergraduate level. All degree candidates are required, as part of their graduate education, to participate continuously in the research and/or teaching programs of the Department.

For more information, please see the program page below, and visit our website: <http://www.phys.ufl.edu>.

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Political Science Department

Chair: Ido Oren

Graduate Coordinator: Daniel Smith

Complete faculty listing: [Follow this link.](#)

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) or follow the hyperlinks below to more information about the specific programs offered.

Psychology Department

[College of Liberal Arts and Sciences](#)

Chair: Lise Abrams

Graduate Coordinator: Julia A. Graber

Complete faculty listing by department: [Follow this link.](#)

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

For more information, please see the program page below and our website: <http://www.psych.ufl.edu>.

Religion Department

Chair: Manuel A. Vasquez.

Graduate Coordinator: David G. Hackett

Complete faculty listing by department: [Follow this link.](#)

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the *General Information* section of this catalog.

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://religion.ufl.edu/graduate-studies/> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 15 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://religion.ufl.edu/graduate-studies/>.

Spanish and Portuguese Studies Department

Chair: G. Lord

Graduate Coordinator: L. Álvarez Castro

Complete faculty listing by department: [Follow this link](#).

The Department of Spanish and Portuguese Studies offers a Master of Arts degree (M.A.) in Spanish (thesis and non-thesis options) and a Doctor of Philosophy degree (Ph.D.) in Romance Languages and Literatures, with a concentration in Spanish. Descriptions of the minimum requirements for both degrees are provided in the General Information section of this catalog. For specific information about the program, please visit the graduate section of the departmental webpage:

<http://www.spanishandportuguese.ufl.edu/spanish/graduate.html>

Candidates for graduate degrees (both M.A. and Ph.D.) in Spanish can choose between two specializations—literature/culture or linguistics. In conjunction with their master's or doctoral work, students may also earn a Certificate in Latin American Studies. Though a graduate degree is not offered in Portuguese, extensive course offerings at the graduate level permit students to develop a strong specialization in Portuguese language and Luso-Brazilian literature, film and culture.

The main prerequisite for admission to the M.A. program is an undergraduate major in Spanish, ideally including advanced courses in the proposed area of specialization. Applicants for the Ph.D. should hold an M.A. or equivalent degree in Spanish. At the discretion of the Graduate Studies Committee, candidates from related fields of study (History, Sociology...) may be offered a conditional admission into the Ph.D. program pending the passing of the M.A. Comprehensive Examination within the first year of study.

All M.A. and Ph.D. students in Spanish who are appointed as teaching assistants must take Romance Language Teaching Methods (FOL/ [FOL 6943](#)). Besides, all M.A. and Ph.D. students specializing in literature and culture must take Introduction to Graduate Study and Research ([SPW 6806](#)). Other requirements vary with degree and specialization. For details, consult the graduate section of the departmental webpage (see above).

The Department is able to offer most students a teaching assistantship that provides a maintenance stipend and includes a tuition waiver. Contingent on positive performance in teaching and graduate work, M.A. students are guaranteed four semesters of support, and Ph.D. students are guaranteed eight semesters of support beyond the M.A. In addition, there are several fellowships, supplements and stipends for which students may apply, and summer teaching may be available.

Prospective students are encouraged to review the departmental webpage in order to familiarize themselves with the program and the application process. Only those applications including all required materials and submitted by the advertised deadlines will be considered. For any questions about the program or how to apply, please contact the graduate coordinator:

lacastro@ufl.edu.

Highly qualified UF undergraduate students majoring in Spanish may apply for a combined B.A./M.A. program in Spanish that allows up to 12 graduate credits to be counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details.

Statistics Department

Chair: M. J. Daniels

Graduate Coordinator: J. P. Hobert

Complete faculty listing: [Follow this link](#).

Graduate programs are available leading to Master of Science in Statistics, Master of Statistics, and Doctor of Philosophy degrees. Minimum requirements for these degrees are described in the *General Information* section of this catalog.

Both master's programs usually require 2 years of course work including material covered in [STA 6208](#), 6208, [STA 6326](#), [STA 6327](#), [STA 6246](#), and [STA 6329](#). In addition to earning a "Ph.D. pass" on the first-year evaluation, requirements for the Ph.D. degree include STA 6466, 6467, [STA 7249](#), and [STA 7346](#).

Interdisciplinary programs: The Department offers a co-major program in conjunction with the Fisher School of Accounting leading to the Doctor of Philosophy degree in statistics and business administration accounting. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Departments of Mathematics; Industrial and Systems Engineering; and Finance, Insurance, and Real Estate. For information on these programs, consult the departmental graduate coordinator.

Combined program: The Department offers a bachelor's/master's degree program. Contact the graduate coordinator for information.

Women's Studies Department

Director: Bonnie Moradi

Graduate Coordinator: Kendal Broad

Complete faculty listing by department: [Follow this link](#).

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as a two certificates. These options give students the opportunity to take advantage of scholarship in this dynamic field, and to become acquainted with different research perspectives and methodologies. Students become well grounded in theories of gender in cultural systems and in ways that gender intersects with other categories of difference such as race, ethnicity, religion, class, sexuality, nation, physical and mental ability, age, and economic and civil status. Faculty and students employ feminist and other appropriate theoretical approaches and methodologies.

The Center offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring. The Center in Ustler Hall houses archives, a small library, offices, and meeting space.

For more information about our program, please see the program page below or our website: <http://web.wst.ufl.edu>.

College of Medicine

Dean: M.L. Good

Complete faculty listings: [Follow this link](#).

The College of Medicine offers training opportunities leading to either the Doctor of Philosophy or Master of Science degree in medical sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For more information, please see our website: <http://med.ufl.edu>.

The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings. For further information, visit <http://idp.med.ufl.edu>.

[Departments and Programs within the College of Medicine](#)

[College of Medicine Courses](#)

Biochemistry and Molecular Biology Department

Chair: James B. Flanagan.

Graduate Coordinator: Kevin Brown

Complete faculty listing by department: [Follow this link.](#)

Biochemistry and Molecular Biology Department faculty mentor Ph.D. students in the College of Medicine interdisciplinary program (IDP) in medical sciences. Students interested in pursuing a doctoral degree can view specific features of the biochemistry and molecular biology concentration at <http://biochem.med.ufl.edu/> and <http://idp.med.ufl.edu>. For admission information, visit the IDP website. Department faculty also mentor Ph.D. students in other college programs and participate actively in the research and teaching functions of various centers such as the Center for Epigenetics and the Center for Structural Biology. The Department offers a wide variety of courses for graduate students studying in the life sciences. The research expertise of the faculty spans the areas from cell biology, metabolism, and molecular biology to physical biochemistry/structural biology. Current research interests include viral protease inhibitors, viral RNA replication, bioenergetics and proton translocation, X-chromosome structure and function, cytoskeletal assembly and dynamics, enzyme mechanism and control, chromatin structure, gene expression and regulation, mitochondrial biogenesis and evolution, the genetics of inherited disease, nutrient membrane transporters, protein site-directed mutagenesis, ribosome structure and function, signal transduction, structural biology and dynamics of macromolecules, protein-nucleic acid interactions, transgenic animal models, and virus crystal structure. Prospective graduate students should have adequate training in chemistry and biology. Minor deficiencies may be made up immediately after entering graduate school. Previous undergraduate experience in a research laboratory is highly recommended. Doctoral students are required to take a core IDP course in fall term of their first year; and beginning in spring term, students take advanced classes in areas of interest. Specific advanced-level courses may be recommended by the student's supervisory chair and committee. The following courses are open to all graduate students and advanced undergraduates. Additional courses are listed in the Advanced Concentration in Biochemistry and Molecular Biology section under Medical Sciences.

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: P. Qiu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/curriculum-overview/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/ms-curriculum-overview/>.

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in

epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.php.ufl.edu>.

Health Outcomes and Policy Department

[College of Medicine](#)

Chair: Betsy Shenkman

Graduate Coordinator: Jill Hemdon

Complete faculty listing by department: [Follow this link.](#)

Students can pursue either a Master of Science degree or a Graduate Certificate.

There is increasing emphasis on assessing health outcomes throughout the lifespan in a variety of health care and community settings. Nationally, the National Institute of Health and other federal and state agencies focus on the development of evidence-based programs to promote health, improve health care delivery, and enhance health outcomes.

Outcomes research generates evidence that informs health care program design in clinical and community settings, the promotion of effective clinical and community interventions, quality of care, cost-effective and clinically appropriate choices for patients in allocation of health care resources (clinical effectiveness), and incorporation of best practice models into health-related programs and policies. Outcomes research also provides mechanisms to understand how to translate research into practice and policy, how to improve the quality and efficiency of health programs, and how to achieve equitable and appropriate delivery of health programs and clinical care, particularly for underserved and vulnerable populations.

Our graduate programs are designed to train professionals in the health care and health research fields about the science that supports the development and evaluation of evidence-based clinical and community-based programs focused on improving health outcomes. Further, our programs emphasize methods for translating research into practice and policy. The unique combination of courses offered through these graduate programs will give trainees the tools needed to examine health outcomes and policies in a variety of settings across different age spans and to examine the individual, social, health system, and health policy factors that influence health outcomes.

In addition to traditional graduate students, both programs are available to medical students, post-doctoral students, fellows, residents, Ph.D. students, and junior faculty.

Molecular Genetics and Microbiology Department

Chair: H. V. Baker.

Graduate Coordinator: A. S. Lewin.

Complete faculty listing by department: [Follow this link.](#)

The Graduate Faculty of the Department of Molecular Genetics and Microbiology participate in the interdisciplinary program (IDP) in medical sciences, leading to the Doctor of Philosophy degree, with specialization in one of the six advanced concentration areas of the IDP (see *Medical Sciences*). Departmental areas of research associated with the IDP focus on topical problems in molecular genetics, viral genetics, and viral and bacterial pathogenesis. Faculty in the Department of Molecular Genetics and Microbiology also participate in the M.S. programs (see *Medical Sciences*). In addition to courses associated with the IDP, the Department of Molecular Genetics and Microbiology maintains the courses listed below.

Biotechnology: This Master of Science program is for students seeking careers in the biomedical industry as research or managerial associates; students seeking careers as teachers or educators at any level, but primarily high school or junior college; or students seeking an in-depth understanding of modern biology and scientific research as an end in itself or in preparation for further graduate study. The foundation of the M.S. program is a basic understanding of molecular and cell biology and the performance of a high-quality research project, culminating in a thesis, under the direction of a skilled mentor, with supervision by a committee composed of members of the Graduate Faculty. Specialization may be in any of the fields of research being pursued at the College of Medicine including but not limited to molecular genetics, gene therapy, bacterial or viral pathogenesis, protein structure, toxicology, mammalian genetics, wound healing, and congenital eye diseases.

For more information contact the Master's Program Coordinator, Molecular Genetics and Microbiology, P.O. Box 100266, College of Medicine, Gainesville, FL 32610, Telephone (352)392-3314.

College of Nursing

Dean: A.M. McDaniel

Complete faculty listings: [Follow this link.](#)

The nationally ranked College of Nursing offers the graduate degrees of Master of Science in Nursing, Doctor of Nursing Practice, and Doctor of Philosophy in nursing sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Students may request special review by the College of Nursing Admissions Committee if they believe they are strong candidates for graduate study but do not fully meet all criteria.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal. Additional offerings include

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader

For additional information about the Nursing programs, visit <http://www.nursing.ufl.edu> or call (352) 273-6331.

[College of Nursing Courses](#)

College of Pharmacy

Dean: J. Johnson

Complete faculty listings: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy and the Master of Science in Pharmacy degrees in the pharmaceutical sciences, with concentrations in medicinal chemistry, pharmacodynamics, pharmaceutical outcomes and policy, and pharmacy which includes pharmaceuticals. There are two additional concentrations in the Master of Science in Pharmacy program in pharmaceutical sciences: forensic drug chemistry, and forensic serology and DNA. Both offered in a distance-learning nonthesis format. Complete descriptions of the minimum

requirements for the M.S.P. and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

The Graduate Faculty and courses offered are listed under department headings in this catalog. The courses listed below consist of seminar, supervised teaching and research, and research for thesis or doctoral dissertation. These courses are offered in each of the departments.

Students who wish to pursue graduate studies in the College of Pharmacy must have an undergraduate degree in pharmacy, chemistry, biology, or related sciences.

Satisfactory completion of a thesis or dissertation based on research is a requirement for a graduate degree in the pharmaceutical sciences.

Inquiries regarding applications and general information about the graduate programs are processed through the

Office of Research and Graduate Studies,
College of Pharmacy,
P.O. Box 100484,
Health Science Center.

For more information, please see our website: <http://pharmacy.ufl.edu>.

[Departments and Programs within the College of Pharmacy](#)

[College of Pharmacy Courses](#)

Medicinal Chemistry Department

[College of Pharmacy](#)

Chair: M. O. James.

Graduate Coordinator: H. Luesch

Complete faculty listing by department: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy degree in pharmaceutical sciences with a concentration in medicinal chemistry. Medicinal chemistry is a unique blend of the physical and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active research include organic synthesis of medicinal agents, metal chelate design, prodrugs and topical drug delivery, drug metabolism, molecular toxicology, molecular biology, combinatorial chemistry, neurochemistry, analytical chemistry, molecular modeling, natural products, and drug discovery.

The applicant should have an undergraduate degree in pharmacy, chemistry, biology, or premedical sciences. A background in calculus and physical and organic chemistry is required. In addition to graduate medicinal chemistry courses in the College of Pharmacy, graduate courses in chemistry and biochemistry are required for the program.

The College also offers the Master of Science in Pharmacy degree in pharmaceutical sciences (nonthesis option) with concentrations in both forensic drug chemistry and forensic serology and DNA in a distance learning format. Minimum requirements for the M.S.P. and Ph.D. degrees are described in the *General Information* section of this catalog.

The Department participates in the interdisciplinary concentration in toxicology. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Pharmaceutics Department

Chair: H. C. Derendorf.

Graduate Coordinator: A. Palmieri III.

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmaceutics offers the Doctor of Philosophy in pharmaceutical sciences. Pharmaceutics is the scientific endeavor concerned with the design, formulation, evaluation, and use of drug delivery systems. A foundation in physical chemistry, chemistry, mathematics, and in the life sciences, is necessary. Its domain extends from studies of the physiochemical properties of drugs and related molecules to investigations of the mechanisms of physiological processes affecting drug delivery and therapeutic effectiveness. The Department's general focus involves studying the design and evaluation of traditional and novel dosage forms for delivering drug molecules and macromolecules. The design involves physical chemical studies and development of analytical techniques involving spectroscopy and chromatography. Evaluation includes development of sensitive analytical techniques for the drug in biological fluids and subsequent biopharmaceutical and clinical pharmacokinetic studies.

Pharmacodynamics Department

Chair: M. Keller-Wood.

Interim Graduate Coordinator: Joanna Peris

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see *Interdisciplinary Graduate Studies* in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

Pharmaceutical Outcomes and Policy Department

Chair: R. Segal

Graduate Coordinator: A. Winterstein

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree. Complete descriptions of the requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog

Pharmacotherapy and Translational Research Department

For a full list of faculty, please [follow this link](#).

Description to be added

College of Public Health and Health Professions

Dean: Michael G. Perri

Executive Associate Dean: Stephanie L. Hanson

Complete faculty listings: [Follow this link](#).

The University of Florida College of Public Health and Health Professions has established a new educational model that focuses on the integration of public health problem-solving and individual patient care. The college's mission is to preserve, promote and improve the health and well-being of populations, communities and individuals. To fulfill this mission, we foster collaborations among public health and the health professions in education, research and service.

For more information, please see our website: <http://phhp.ufl.edu>

[Departments and Programs within the College of Public Health and Health Professions](#)

[College of Public Health and Health Professions Courses](#)

Behavioral Science and Community Health Department

Chair: B. Curbow

Complete faculty listing by department: [Follow this link](#).

The Department of Behavioral Science & Community Health (BSCH) is one of nine academic departments housed in the School of Public Health and Health Professions at the University of Florida. This department offers a Doctor of Philosophy (PhD) degree (SBS track). For more information about the program, please visit the link below.

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Interim Chair: Samuel Wu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link](#).

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

Clinical and Health Psychology Department

[College of Public Health and Health Professions](#)

Department Chair: William W. Latimer.

Graduate Coordinator: S.R. Boggs.

Complete faculty listing: [Follow this link.](#)

The Department of Clinical and Health Psychology is a unit of the College of Public Health and Health Professions. The department's programs are its doctoral clinical psychology studies leading to the Ph.D. degree in psychology; an American Psychological Association accredited doctoral internship program; and postdoctoral studies and research. Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

The clinical psychology doctoral curriculum adheres to the scientist-practitioner model of education and training. Program strengths include research, education, and professional training in health care psychology, with organized areas of concentration in clinical health psychology, clinical child/pediatric psychology, neuropsychology, neurorehabilitation and clinical neuroscience, and emotion neuroscience/psychopathology. Education and training experiences are also available in rural psychology. Interested students can apply for acceptance into the Public Health Program and obtain dual M.P.H./Ph.D. degrees.

Progress in the program is determined by departmental policies which are consistent with American Psychological Association accreditation standards. The curriculum has been continuously accredited by the American Psychological Association since 1953.

Admission to the Department is through appropriate application to the Department's admission committee. A bachelor's degree is generally adequate preparation for graduate admission. It should include undergraduate courses in both experimental psychology and statistics, along with at least three courses from the following psychology areas: developmental, learning, perception, personality, physiological, and social.

For more information, please see the program page below and our website: <http://chp.phhp.ufl.edu>.

Environmental and Global Health Department

Chair: G. C. Gray

Graduate Studies Program Assistant: N. Burke

Faculty listing: [Follow this link](#)

The Department of Environmental and Global Health focuses upon environmental factors that impact human health. Department faculty, scientists, and students employ numerous disciplines in studying these environmental factors: virology, bacteriology, parasitology, entomology, toxicology, epidemiology, water sciences, veterinary health, environmental engineering, aerosol biology, wildlife health, etc. Research work often involves international travel and collaboration. A central theme for the department is the interdisciplinary thinking called [One Health](#) which reflects the collaborations necessary to tackle public health's most difficult problems. Faculty, students and staff often perform research in the laboratories in the [Emerging Pathogens Institute](#), the [Center for Environmental and Human Toxicology](#), or the [Aquatic Pathobiology Laboratory](#).

The Department of Environmental and Global Health offers graduate work leading to the degrees of Doctor of Philosophy, Master of Health Science, and Master of Public Health.

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

Health Services Research, Management, and Policy Department

Chair: Arch G. Mainous, III

Graduate Coordinator: Patricia Van Wert

Complete faculty listing: [Follow this link.](#)

The Department of Health Services Research, Management, and Policy offers degree programs at both the master's and doctoral level. The Master of Health Administration (M.H.A.) prepares individuals for management positions in the health care field. The Department also participates in the Master of Public Health (M.P.H.) degree by offering a concentration in Public Health Management and Policy (more information available [here](#)).

At the doctoral level, the Department offers the Ph.D. degree in Health Services Research. This full-time program prepares graduates to investigate and evaluate the complexities of health care systems in the U.S. and elsewhere. Health services research is a multidisciplinary field that examines the delivery, organization, financing and outcomes of health care services.

Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below and our website: <http://hsrmp.phhp.ufl.edu>.

Occupational Therapy Department

Chair: W. C. Mann.

Graduate Coordinator: C. A. Velozo, J.J. Foss.

Complete faculty listing by department: [Follow this link.](#)

The Department of Occupational Therapy offers graduate programs in occupational therapy leading to the Master of Health Science (M.H.S.) degree (on-campus nonthesis and thesis options and distance learning nonthesis option) and the entry-level Master of Occupational Therapy (M.O.T.) degree. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

Master of Health Science: This program is designed for students who have earned an undergraduate degree in Occupational therapy. The thesis option requires four semesters of course work and a formal research thesis, while the nonthesis option requires three semesters of course work and a research project. The program emphasizes research and advanced theories related to occupational therapy practice. Preparation for teaching, administrative, and other occupational therapy roles is supplemented through elective courses. A coherent series of elective courses related to occupational therapy must be approved by the supervisory committee chairperson before the second semester of work.

In addition to the requirements of the Graduate School, admission requires the candidate to have completed a curriculum in occupational therapy accredited by the American Occupational Therapy Association or by the World Federation of Occupational Therapists.

The distance learning degree option for the Master of Health Science is specifically intended to meet the needs of the working professional. The nonthesis program is designed to improve the knowledge and skills of working occupational therapists for practice in a complex and challenging health care system. It provides preparation for new practice areas, leadership roles, and independent practice and is delivered through the Internet. In addition to the departmental requirements listed above, applicants to the distance learning program must have basic personal computer competency and access to a computer that meets minimal configuration requirements.

Additional information about the Master of Health Science is available at <http://www.hp.ufl.edu> or <http://gradschool.rnp.ufl.edu> or by telephone at (352)273-6817. For distance learning, see <http://otdlim.php.ufl.edu/> or call toll free (866)878-3297.

Master of Occupational Therapy: This entry-level degree program is designed for students who do not have an undergraduate degree in occupational therapy. The program provides students with a holistic perspective, including an understanding of the philosophical and theoretical bases for practice in the current health care environment. The M.O.T. program provides a strong background in theory, assessment, and therapeutic interventions. Before their professional preparation in the M.O.T. program, students receive a liberal education in their pre-professional baccalaureate studies, including several courses specifically focused for students planning to enter the M.O.T. program. Students may enroll in courses in the Bachelor of Health Science degree program at the bachelor's level, or they may complete these courses on a postbaccalaureate level before starting the M.O.T. program. Students are only admitted into the M.O.T. program in summer term and graduate at the end of the fall term after 1.33 years of full-time study (5 semesters) and 58 credits.

Admission requirements include completion of an undergraduate degree and the prerequisite course work. Three letters of reference and a letter of application are required by the Department. Additional information is available at <http://www.php.ufl.edu/ot/> and <http://gradschool.rnp.ufl.edu> or by telephone (352)273-6817.

This program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association. The address for ACOTE is 4720 Montgomery Lane, Box 31220, Bethesda, MD, 20814-1220. The phone number is (301) 652-2632. Graduates of the program are eligible to sit for the national certification exam administered by the National Board for Certification in Occupational Therapy (NBCOT). The website address of NBCOT is www.nbcot.org.

Speech, Language and Hearing Sciences Department

Chair: Scott K. Griffiths

Graduate Coordinators: Kenneth J. Logan and Alice Holmes

Complete faculty listing by department: [Follow this link.](#)

Graduate programs in the Department lead to Master of Arts and Doctor of Philosophy degrees in Communication Sciences and Disorders and to the Doctor of Audiology degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate specializations and programs in speech-language pathology and audiology are accredited by the Council on Academic Accreditation/American Speech-Language-Hearing Association.

The **Doctor of Audiology (Au.D.) Program** in the Department of Speech, Language, and Hearing Sciences is a four-year graduate degree. Graduate students take course work in theoretical and applied audiologic sciences and research. There are no specific undergraduate courses required for admission to the Au.D. degree program, although applicants with a strong science background are encouraged to apply. Graduates of this program are eligible for the Certificate of Clinical Competence in Audiology (CCC-A) administered by the American Speech-Language-Hearing Association, Board Certification in Audiology administered by the American Academy of Audiology, and for state licensure in audiology. For more information, contact Alice Holmes, Ph.D. (aholmes@ufl.edu).

The **Ph.D. Program in Communication Sciences and Disorders** provides a state-of-the-art education in research practices in speech-language pathology and audiology with a strong interdisciplinary focus. Our goal is to prepare the next generation of researchers who are specialized in basic and/or applied science that relates to a range of speech, language, hearing, and swallowing functions. The program is designed to develop researchers who are skilled at independently designing and conducting original research that adds to the body of knowledge in the field. Students are individually mentored and pursue individually designed programs of study tailored to their interests and needs, which incorporate training in appropriate adjunct fields such as engineering, dentistry, gerontology, linguistics, psychology, medicine and special education. For more information, contact Lori Altmann, Ph.D. (laltmann@ufl.edu).

The **Master of Arts (M.A.) Program** offers comprehensive academic training and clinical experience for students who are interested in a career in speech-language pathology. The five-semester program culminates in the completion of either a clinical externship or a Master's thesis, and it provides graduates with a solid foundation for obtaining employment in a variety of work settings. Students have the opportunity to complete clinical practica at sites within the University of Florida's Health Science Center and at other medical, rehabilitative, and educational facilities on or near the campus. These sites allow students to gain experience with providing clinical services to a range of patient populations.

Applicants to the Master's program must demonstrate successful completion of pre-requisite coursework in both normal bases of communication and introductory concepts in communication disorders. Additional information about these pre-requisites is available on the Department website. Graduates of the program are eligible for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association as well as state licensure in speech-language pathology. For more information, contact Kenneth J. Logan, Ph.D. (klogan@ufl.edu).

The Department of Speech, Language, and Hearing Sciences is committed to providing its students with a high-quality educational experience that will prepare them for rewarding employment in the areas of speech-language pathology and audiology, as well as an eagerness for life-long learning and professional development. The department strives to enroll a diverse group of students who possess both high ethical standards and strong academic skills. The application deadlines are January 15 for fall admission to the Ph.D. program, and February 1 for fall admission to the Master's and Au.D. programs.

For more information, please see the program pages below and our website: <http://slhs.php.ufl.edu>.

College of Veterinary Medicine

Dean: G. F. Hoffsis

Complete faculty listings: [Follow this link](#).

The UF College of Veterinary Medicine is the state's only veterinary college. UF's College of Veterinary Medicine offers comprehensive services to the public through teaching, research, extension and state-of-the-art patient care.

For more information, please see our website: <http://www.vetmed.ufl.edu>

[Departments and Programs within the College of Veterinary Medicine](#)

[College of Veterinary Medicine Courses](#)

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link](#).

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Course Descriptions - All (unsorted)

[Return to Courses by Discipline](#)

ABE 5015: Empirical Models of Crop Growth and Yield Response

ABE 5038: Recent Developments and Applications in Biosensors

ABE 5152: Electro-Hydraulic Circuits and Controls

ABE 5332: Advanced Agricultural Structures

ABE 5442: Advanced Agricultural Process Engineering

ABE 5643C: Biological Systems Modeling

ABE 5646: Biological and Agricultural Systems Simulation

ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials

ABE 5663: Advanced Applied Microbial Biotechnology

ABE 5707C: Agricultural Waste Management

ABE 5815C: Food and Bioprocess Engineering Design

ABE 6005: Applied Control for Automation and Robots

ABE 6031: Instrumentation in Agricultural Engineering Research

ABE 6035: Advanced Remote Sensing: Science and Sensors

ABE 6037C: Remote Sensing in Hydrology

ABE 6252: Advanced Soil and Water Management Engineering

ABE 6254: Simulation of Agricultural Watershed Systems

ABE 6265: Vadose Zone Modeling

ABE 6266: Nanotechnology in Water Research

ABE 6615: Advanced Heat and Mass Transfer in Biological Systems

ABE 6644: Agricultural Decision Systems

ABE 6816: Food and Bioprocess Sterilization

ABE 6905: Individual Work in Agricultural and Biological Engineering

ABE 6910: Supervised Research

ABE 6931: Seminar

ABE 6933: Special Topics in Agricultural and Biological Engineering

ABE 6940: Supervised Teaching

ABE 6971: Research for Master's Thesis

ABE 6972: Research for Engineer's Thesis

ABE 6974: Nonthesis Project

ABE 6986: Applied Mathematics in Agricultural and Biological Engineering

ABE 7979: Advanced Research

ABE 7980: Research for Doctoral Dissertation

ACG 5005: Financial Accounting

ACG 5065: Financial and Managerial Accounting

ACG 5075: Managerial Accounting

ACG 5226: Advanced Accounting

ACG 5505: Governmental Accounting

ACG 5637: Auditing I

ACG 5647: Auditing II

ACG 5815: Accounting Regulation

ACG 6136: Accounting Theory

ACG 6175: Financial Reporting and Analysis

ACG 6207: Accounting for Risk

ACG 6265: International Accounting and Taxation

ACG 6635: Issues in Audit Practice

ACG 6685: Forensic Accounting

ACG 6691: International Auditing

ACG 6697: Information Systems Assurance

ACG 6905: Individual Work in Accounting

ACG 6935: Special Topics in Accounting

ACG 6940: Supervised Teaching

ACG 7885: Accounting Research I

ACG 7886: Accounting Research II

ACG 7887: Research Analysis in Accounting

ACG 7939: Theoretical Constructs in Accounting

ACG 7979: Advanced Research

ACG 7980: Research for Doctoral Dissertation

ADV 5005: Advertising Planning

ADV 6006: Theories of Advertising

ADV 6305: Advanced Media Planning

ADV 6325: Advertising and Social Media

ADV 6405: International Advertising

ADV 6503: Advertising Creative Strategy and Research

ADV 6505: Advertising Research Methods

ADV 6602: Advertising Management

AEB 5167: Economic Analysis in Small Farm Livelihood Systems

AEB 5188: Economics of Agribusiness Decisions

AEB 5326: Agribusiness Financial Management

AEB 5516: Quantitative Methods in Agribusiness Decisions

AEB 5757: Strategic Agribusiness Human Resource Management

AEB 6106: Microeconomic Principles and Analysis

AEB 6139: Strategic Agribusiness Management

AEB 6145: Agricultural Finance

AEB 6183: Agribusiness Risk Management

AEB 6225: Public Policy and the Agribusiness Firm

AEB 6301: Food Wholesale and Retail Marketing

AEB 6363: Agricultural Marketing

AEB 6385: Management Strategies for Agribusiness Firms

AEB 6533: Static and Dynamic Optimization Models in Agriculture

AEB 6553: Elements of Econometrics

AEB 6592: Mathematical Programming for Economic Analysis

AEB 6675: International Agribusiness Marketing

AEB 6815: Science and Research Methodology

AEB 6817: Survey Research Methods for Economists

AEB 6905: Problems in Food and Resource Economics

AEB 6910: Supervised Research

AEB 6921: Workshop in Food and Resource Economics I

AEB 6933: Special Topics

AEB 6934: Workshop in Food and Resource Economics II

AEB 6942: Advanced Applications in Agribusiness Experience

AEB 6971: Research for Master's Thesis

AEB 7108: Microeconomic Theory II

AEB 7174: Economic Coordination and Organizational Behavior in Agribusiness

AEB 7182: Agricultural Risk Analysis and Decision Making

AEB 7184: Production Economics

AEB 7240: Macroeconomic Theory in Open Economies II

AEB 7373: Consumer Demand and Applied Analysis

AEB 7453: Natural Resource and Environmental Economics

AEB 7483: Seminar in Natural Resource and Environmental Economics

AEB 7571: Econometric Methods I

AEB 7572: Econometric Methods II

AEB 7645: Economic Development and Agriculture

AEB 7979: Advanced Research

AEB 7980: Research for Doctoral Dissertation

AEC 5032: Agricultural Media Writing

AEC 5037: Agricultural Media Production

AEC 5060: Public Opinion and Agricultural and Natural Resource Issues

AEC 5074: Agriculture, Resources, People, and the Environment: A Global Perspective

AEC 5201: Teaching in Colleges of Agricultural and Life Sciences

AEC 5203: Advanced Teaching in Colleges of Agricultural and Life Sciences

AEC 5206: Teaching Methods in Agricultural Education

AEC 5227: Teaching in Agricultural Education Laboratory Facilities

AEC 5302: Professional Skill Development in Agriscience Education I

AEC 5324: Philosophy and Development of Agricultural Education

AEC 5454: Leadership Development for Extension and Community Nonprofit Organizations

AEC 5501: Professional Skill Development in Agriscience Education II

AEC 5541: Communication and Instructional Technologies in Agricultural and Life Sciences

AEC 5544: Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies

AEC 5545: Special Methods in Teaching Agriculture

AEC 5546: Program Planning in Agricultural Education

AEC 6205: Advanced Curriculum and Teaching Methods

AEC 6210: Designing Educational Programs in Agricultural Settings

AEC 6211: Delivering Educational Programs in Agricultural Settings

AEC 6212: Teacher Education in Agriculture

AEC 6229: Laboratory Instruction: Theory and Practice

AEC 6300: Methodology of Planned Change

AEC 6316: From America to Zimbabwe: An Overview of International Extension Systems

AEC 6321: The Land Grant University and University Governance

AEC 6325: History and Philosophy of Agricultural Education

AEC 6419: Communication and Competencies for Global Leadership

AEC 6426: Development of a Volunteer Leadership Program

AEC 6512: Program Development in Extension Education

AEC 6540: Agricultural and Natural Resources Communications Theory and Strategies

AEC 6543: Teaching and Learning Theory: Applications in Agricultural Education

AEC 6552: Evaluating Programs in Extension Education

AEC 6611: Agricultural and Extension Adult Education

AEC 6704: Extension Administration and Supervision

AEC 6767: Research Strategies in Agricultural Education and Communication

AEC 6905: Problems in Agricultural and Extension Education

AEC 6910: Supervised Research

AEC 6912: Nonthesis Research in Agricultural and Extension Education

AEC 6933: Seminar in Agricultural Education and Communication

AEC 6940: Supervised Teaching

AEC 6945: Practicum in Agricultural Education and Communication

AEC 6947: Experiential Learning in Agricultural Education

AEC 6971: Research for Master's Thesis

AEC 7979: Advanced Research

AEC 7980: Research for Doctoral Dissertation

AFH 5297: History of African Agriculture

AFH 5348: History of West Africa

AFH 5458: Southern Africa

AFH 5934: Topics in African History

AFH 6259: Seminar in Modern Africa

AFH 6805: Theories and Methods of African History

AFH 6934: Africa

AFH 6936: Readings in African History

AFS 5061: Africana Bibliography

AFS 6060: Research Problems in African Studies

AFS 6305: Development Theory and Practice Intro

AFS 6307: Foundations of Economics for Sustainable Development

AFS 6357: Anthropology of Humanitarian Intervention

AFS 6905: Individual Work in African Studies

AGG 5504: Critical and Creative Thinking in Problem Solving and Decision Making

AGR 5215C: Integrated Field Crop Science

AGR 5230C: Florida Grassland Agroecosystems

AGR 5266C: Field Plot Techniques

AGR 5277C: Tropical Crop Production

AGR 5307: Molecular Genetics for Crop Improvement

AGR 5321C: Genetic Improvement of Plants

AGR 5444: Ecophysiology of Crop Production

AGR 5511: Crop Ecology

AGR 6233: Tropical Grassland Agroecosystems

AGR 6237C: Research Techniques in Forage Evaluation

AGR 6311: Population Genetics

AGR 6322: Advanced Plant Breeding

AGR 6325L: Plant Breeding Techniques

AGR 6353: Cytogenetics

AGR 6422C: Environmental Crop Nutrition

AGR 6442C: Physiology of Agronomic Plants

AGR 6905: Agronomic Problems

AGR 6910: Supervised Research

AGR 6932: Topics in Agronomy

AGR 6933: Graduate Agronomy Seminar

AGR 6940: Supervised Teaching

AGR 6971: Research for Master's Thesis

AGR 7979: Advanced Research

AGR 7980: Research for Doctoral Dissertation

ALS 5027: Reusable Learning Objects

ALS 5106: Food and the Environment

ALS 5155: Global Agroecosystems

ALS 5156: Agricultural Ecology Principles and Applications

ALS 5364C: Molecular Techniques Laboratory

ALS 5905: Individual Study

ALS 5932: Special Topics

ALS 5934: Graduate Professional Development Seminar

ALS 6046: Grant Writing

ALS 6166: Exotic Species and Biosecurity Issues

ALS 6921: Colloquium on Plant Pests of Regulatory Significance

ALS 6925: Integrated Plant Medicine

ALS 6930: Graduate Seminar

ALS 6931: Plant Medicine Program Seminar

ALS 6935: Topics in Biological Invasions

ALS 6942: Principles of Plant Pest Risk Assessment and Management

ALS 6943: Internship in Plant Pest Risk Assessment and Management

AMH 5405: The South to 1860

AMH 5905: Special Studies

AMH 5930: Topics in United States History

AMH 6198: Early American Society

AMH 6199: Nineteenth Century America

AMH 6290: Modern America

AMH 6356: Research in U.S. History

AMH 6406: Readings in Southern History, 1607-1865

AMH 6465: Seminar in U.S. Urban History

AMH 6506: Seminar in American Labor History

AMH 6516: Seminar in American Foreign Relations and Expansion

AMH 6557: Seminar in Constitutional or Legal History of the United States

AML 6017: Studies in American Literature Before 1900

AML 6027: Studies in 20th-Century American Literature

ANG 5012: Fantastic Anthropology and Fringe Science

ANG 5085: Collection and Analysis of Visual Data in Anthropology

ANG 5126: Zooarcheology

ANG 5158: Florida Archeology

ANG 5162: Maya Archeoastronomy and Ethnoastronomy

ANG 5164: The Inca and Their Ancestors

ANG 5172: Historical Archeology

ANG 5194: Principles of Archeology

ANG 5255: Rural Peoples in the Modern World

ANG 5265: Methods in Ethnoecology

ANG 5266: Economic Anthropology

ANG 5303: Women and Development

ANG 5310: The North American Indian

ANG 5323: Peoples of Mexico and Central America

ANG 5327: Maya and Aztec Civilizations

ANG 5330: The Tribal Peoples of Lowland South America

ANG 5331: Peoples of the Andes

ANG 5336: The Peoples of Brazil

ANG 5341: Anthropology of the Caribbean

ANG 5352: Peoples of Africa

ANG 5354: Anthropology of Modern Africa

ANG 5395: Visual Anthropology

ANG 5420: Social Network Analysis in Cultural Anthropology

ANG 5426: Kinship and Social Organization

ANG 5464: Culture and Aging

ANG 5485: Research Design in Anthropology

ANG 5486: Computing for Anthropologists

ANG 5488: Geospatial Analysis in Cultural Anthropology

ANG 5525: Human Osteology and Osteometry

ANG 5531: Culture and Nutrition

ANG 5546: Seminar: Human Biology and Behavior

ANG 5620: Language and Culture

ANG 5621: Proseminar in Cultural and Linguistic Anthropology

ANG 5700: Applied Anthropology

ANG 5702: Anthropology and Development

ANG 5711: Culture and International Business

ANG 5743: Human Rights Missions in Forensic Anthropology

ANG 5744: International Forensic Fieldwork in Human Rights

ANG 5824L: Field Sessions in Archeology

ANG 6034: Seminar in Anthropological History and Theory

ANG 6086: Historical Ecology

ANG 6091: Research Strategies in Anthropology

ANG 6110: Archaeological Theory

ANG 6112: Critical Archaeology of Time

ANG 6113: Ideology and Symbolic Approaches in Archaeology

ANG 6120C: Environmental Archaeology

ANG 6122C: Archaeological Ceramics

ANG 6128: Lithic Technology

ANG 6146: Archaeology of Maritime Adaptations

ANG 6155: Southeastern U.S. Prehistory

ANG 6161: Problems in Caribbean Prehistory

ANG 6165: Problems in South American Archaeology

ANG 6183: Laboratory Training in Archeology

ANG 6185: Ethnoarchaeology

ANG 6186: Seminar in Archeology

ANG 6187: Experimental Archaeology

ANG 6190: Seminar in Contemporary Methods

ANG 6191: Archaeology of Death

ANG 6224: Painted Books of Ancient Mexico: Codices of Aztecs, Mixtecs, and Mayas

ANG 6241: Special Topics in Ecology of Religion

ANG 6267: Anthropology, Geographic Information System, and Human Ecosystems

ANG 6273: Legal Anthropology

ANG 6274: Principles of Political Anthropology

ANG 6286: Seminar in Contemporary Theory

ANG 6304: Seminar in Gender and International Development

ANG 6314: Peoples of the Arctic

ANG 6351: Peoples and Culture in Southern Africa

ANG 6360: Ethnicity in China

ANG 6366: Family, Gender, and Population in China

ANG 6407: Sickness and Power

ANG 6421: Landscape, Place, Dwelling

ANG 6452: Race and Racism in Anthropological Theory

ANG 6453: Human Rights in Cross-Cultural Perspective

ANG 6478: Evolution of Culture

ANG 6481: Research Methods in Cognitive Anthropology

ANG 6483L: Anthropology of Science

ANG 6511: Seminar in Physical Anthropology

ANG 6514: Human Origins

ANG 6524: Skeletal Mechanics in Biological Anthropology

ANG 6532: Molecular Genetics of Disease

ANG 6547: Human Adaptation

ANG 6552: Primate Behavior

ANG 6553: Primate Cognition

ANG 6555: Issues in Evolutionary Anthropology

ANG 6583: Primate Functional Morphology

ANG 6591L: Advanced Molecular Anthropology Laboratory

ANG 6592: Seminar in Molecular Anthropology

ANG 6593L: Biological Anthropology Laboratory

ANG 6701: Seminar on Applied Anthropology

ANG 6737: Medical Anthropology

ANG 6740: Advanced Techniques in Forensic Anthropology

ANG 6801: Ethnographic Field Methods

ANG 6905: Individual Work

ANG 6910: Supervised Research

ANG 6915: Research Projects in Social, Cultural, and Applied Anthropology

ANG 6917: Professions of Anthropology

ANG 6930: Special Topics in Anthropology

ANG 6940: Supervised Teaching

ANG 6945: Internship in Anthropology

ANG 6971: Research for Master's Thesis

ANG 7979: Advanced Research

ANG 7980: Research for Doctoral Dissertation

ANS 5312C: Applied Ruminant Reproductive Management

ANS 5446: Animal Nutrition

ANS 5935: Reproductive Biology Seminar and Research Studies

ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research

ANS 6313: Current Concepts in Reproductive Biology

ANS 6314: Experimental Embryology

ANS 6447: Ruminant Nutrition

ANS 6449: Vitamins

ANS 6452: Principles of Forage Quality Evaluation

ANS 6458: Advanced Methods in Nutrition Technology

ANS 6636: Meat Technology

ANS 6666L: Molecular and Cellular Research Methods

ANS 6702: Lactation Physiology of Farm Animals

ANS 6704: Mammalian Endocrinology

ANS 6705: Muscle Physiology

ANS 6707: Growth Physiology in Farm Animals

ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology

ANS 6715: Gastrointestinal and Feed Microbiology

ANS 6716: Physiology in Farm Animals

ANS 6718: Nutritional Physiology of Domestic Animals

ANS 6723: Mineral Nutrition and Metabolism

ANS 6745: Introduction to Statistical Genetics

ANS 6750: Reproductive Physiology in Farm Animals

ANS 6751: Physiology of Reproduction

ANS 6767: Molecular Endocrinology

ANS 6775: Essentials of Livestock Immunology

ANS 6905: Problems in Animal Science

ANS 6910: Supervised Research

ANS 6932: Special Topics in Animal Science

ANS 6933: Graduate Seminar in Animal Science

ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology

ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy

ANS 6940: Supervised Teaching

ANS 6971: Research for Master's Thesis

ANS 7979: Advanced Research

ANS 7980: Research for Doctoral Dissertation

AOM 5334C: Agricultural Chemical Application Technology

AOM 5431: GIS and Remote Sensing in Agriculture and Natural Resources

AOM 5435: Advanced Precision Agriculture

AOM 6905: Individual Work in Agricultural Operations Management

AOM 6932: Special Topics in Agricultural Operations Management

APK 5127: Assessment in Exercise Science

APK 5404: Sport Psychology

APK 6111L: Practicum in Exercise Physiology

APK 6116C: Physiological Bases of Exercise and Sport Sciences

APK 6118: Neuromuscular Adaptation to Exercise

APK 6126: Cardiopulmonary Pathologies

APK 6128: EKG Interpretation

APK 6205C: Nature and Bases of Motor Performance

APK 6206: Planning Motor Actions

APK 6210: Controlling Motor Actions

APK 6225: Biomechanical Instrumentation

APK 6226C: Biomechanics of Human Motion

APK 6406: Exercise Psychology

APK 6408: Performance Enhancement

APK 6410: Seminar in Exercise Psychology

APK 6415: Seminar in Sport Psychology: Current Topics

APK 6900: Directed Independent Study

APK 6940: Advanced Practicum in Exercise and Sport Science

APK 7107: Cardiovascular Exercise Physiology

APK 7108: Environmental Stress Exercise Physiology

APK 7117: Exercise Metabolism

APK 7124: Free Radicals in Aging, Exercise and Disease

APK 7129: Pulmonary Function during Exercise

ARC 5791: Topics in Architectural History

ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction

ARC 5810: Techniques of Architectural Documentation

ARC 6116: Drawing toward Architecture

ARC 6176: Advanced Computer-Aided Design

ARC 6212: Topics in Phenomena and Architecture

ARC 6226: Intercultural Perspectives in Architecture

ARC 6228: Film and Architecture

ARC 6241: Advanced Studio I

ARC 6242: Research Methods

ARC 6280: Advanced Topics in Architectural Practice

ARC 6281: Professional Practice

ARC 6311C: Building Information Modeling

ARC 6355: Advanced Studio II

ARC 6356: Advanced Studio III

ARC 6357: Advanced Topics in Architectural Design

ARC 6383: St. Augustine Interdisciplinary Design Studio

ARC 6391: Architecture, Energy, and Ecology

ARC 6393: Advanced Architectural Connections

ARC 6399: Advanced Topics in Urban Design

ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete

ARC 6512: Structural Modeling

ARC 6576: Architectural Structures

ARC 6611: Advanced Topics in Architectural Technology

ARC 6621: Graduate Environmental Technology 2

ARC 6642: Architectural Acoustic Design Laboratory

ARC 6643: Architectural Acoustics

ARC 6670: Lighting Design Seminar

ARC 6685: Life Safety, Sanitation, and Plumbing Systems

ARC 6705: Graduate Architectural History 3

ARC 6711: Architecture of the Ancient World

ARC 6750: Architectural History: America

ARC 6773: Strains of Modernism

ARC 6793: Advanced Topics in Regional Architecture

ARC 6805: Architectural Conservation

ARC 6821: Preservation Problems and Processes

ARC 6822: Preservation Programming and Design

ARC 6851: Technology of Preservation: Materials and Methods I

ARC 6852: Technology of Preservation: Materials and Methods II

ARC 6883: Vernacular Architecture & Sustainability

ARC 6911: Architectural Research

ARC 6912: Architectural Research II

ARC 6913: Architectural Research III

ARC 6932: Advanced Topics in Architectural Methods

ARC 6933: Sustainable Site Design

ARC 6934: European Approach to Sustainable Design

ARC 6935: Seminar in Sustainable Design

ARC 6940: Supervised Teaching

ARC 6971: Research for Master's Thesis

ARC 6979: Master's Research Project

ARE 6049: History of Teaching Art

ARE 6148: Curriculum in Teaching Art

ARE 6246C: Principles of Teaching Art

ARE 6247C: Teaching Art: The Study of Practice

ARE 6386: Teaching Art in Higher Education

ARE 6641: Issues in Art Education

ARE 6746: Methods of Research in Art Education

ARE 6905: Individual Study

ARE 6910: Capstone Project

ARE 6933: Special Topics in Art Education

ARE 6944: Internship in Teaching Art

ARE 6971: Research for Master's Thesis

ARE 6973: Individual Project

ARH 5357: French Art of the Ancien Regime: 1680-1780

ARH 5420: Art in the Age of Revolution

ARH 5440: Beginnings of Modernism

ARH 5527: Arts of Central Africa

ARH 5528: Art of West Africa

ARH 5529: Clothing and Textiles in Africa

ARH 5655: Indigenous American Art

ARH 5667: Colonial Andean Art

ARH 5816: Methods of Research and Bibliography

ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900

ARH 5905: Individual Study

ARH 6141: Greek Art Seminar

ARH 6292: Medieval Art Seminar

ARH 6394: Renaissance Art Seminar

ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890

ARH 6477: Eighteenth-Century European Art Seminar

ARH 6481: Contemporary Art Seminar

ARH 6496: Modern Art Seminar

ARH 6596: Chinese Art Seminar

ARH 6597: African Art Seminar

ARH 6654: Pre-Columbian Art Seminar

ARH 6666: Colonial Latin American Art Seminar

ARH 6694: Nineteenth-Century Art–Seminar

ARH 6696: American Art Seminar

ARH 6797: Museum Education

ARH 6836: Exhibitions Seminar

ARH 6895: Collections Management Seminar

ARH 6900: Independent Study in Museology

ARH 6910: Supervised Research

ARH 6911: Advanced Study

ARH 6914: Independent Study in Ancient Art History

ARH 6915: Independent Study in Medieval Art History

ARH 6916: Independent Study in Renaissance and Baroque Art History

ARH 6917: Independent Study in Modern Art History

ARH 6918: Independent Study in Non-Western Art History

ARH 6930: Special Topics in Museology

ARH 6938: Seminar in Museum Studies

ARH 6941: Supervised Internship

ARH 6946: Museum Practicum

ARH 6948: Gallery Practicum

ARH 6971: Research for Master's Thesis

ARH 7979: Advanced Research

ARH 7980: Research for Doctoral Dissertation

ART 5674C: Digital Fabrication

ART 5905C: Directed Study

ART 5930C: Special Topics

ART 6410C: Printmaking Seminar: Mastering Process and Content

ART 6411C: Printmaking Seminar: Transformation and Change

ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works

ART 6413C: Printmaking Seminar: Interdisciplinary Studio

ART 6671C: Advanced Experiments in Digital Art

ART 6672: Hypermedia

ART 6673C: Video Art

ART 6675C: Digital Art and Animation

ART 6691: Digital Art Studio

ART 6794C: Vessel Aesthetic 1

ART 6795C: Vessel Aesthetic 2

ART 6797C: Ceramic Sculpture 2

ART 6835C: Research in Methods and Materials of the Artist

ART 6849C: Reactive Environments

ART 6897: Professional Practices for the Visual Artist

ART 6910C: Supervised Research

ART 6925C: Art + Technology Workshop

ART 6926C: Advanced Study I

ART 6927C: Advanced Study II

ART 6928C: Advanced Study III

ART 6929C: Advanced Study IV

ART 6933: Area Methods: Rotating Topics

ART 6971: Research for Master's Thesis

ART 6973C: Individual Project

ASH 5388: Topics in East Asian History

ASL 5406: Manual Communication with the Hearing Impaired

AST 5113: Solar System Astrophysics I

AST 5114: Solar System Astrophysics II

AST 6112: Solar System Astrophysics

AST 6215: Stellar Structure and Function

AST 6245: Stellar Atmospheres and Radiative Processes

AST 6309: Galactic and Extragalactic Astronomy

AST 6336: Interstellar Matter

AST 6415: Observational Cosmology

AST 6416: Physical Cosmology

AST 6506: Celestial Mechanics

AST 6725C: Observational Techniques

AST 6905: Individual Work

AST 6910: Supervised Research

AST 6925: Departmental Colloquium

AST 6935: Frontiers in Astronomy

AST 6936: Astronomy Journal Club

AST 6971: Research for Master's Thesis

AST 7939: Special Topics

AST 7979: Advanced Research

AST 7980: Research for Doctoral Dissertation

ATR 6124: Clinical Anatomy for the Exercise Sciences

ATR 6145: Human Pathophysiology for the Exercise Sciences

ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity

ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity

ATR 6304: Rehabilitation and Modalities of Athletic Injuries

ATR 6624: Athletic Training Research and Technology I

ATR 6625: Athletic Training Research and Technology II

ATR 6934: Seminar in Athletic Training

BCH 5045: Graduate Survey of Biochemistry

BCH 5413: Mammalian Molecular Biology and Genetics

BCH 6040: Research Discussion in Biochemistry and Molecular Biology

BCH 6107: Biophysical Techniques in Proteomics and Protein Science

BCH 6206: Advanced Metabolism

BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control

BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism

BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism

BCH 6415: Advanced Molecular and Cell Biology

BCH 6740: Physical Biochemistry/Structural Biology

BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems

BCH 6744: Molecular Structure Determination by X-ray Crystallography

BCH 6744L: Molecular Structure Determination by X-Ray Crystallography Laboratory

BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy

BCH 6745L: Molecular Structure and Dynamics by NMR Spectroscopy Laboratory

BCH 6746: Structural Biology: Macromolecular Structure Determination

BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics

BCH 6749C: Numerical Methods in Structural Biology

BCH 6875: Crystallography and Cryo-Electron Microscopy

BCH 6876: Recent Advances in Membrane Biology

BCH 6877: Recent Advances in Structural Biology

BCH 6878: Recent Advances in Cytoskeletal Processes

BCH 6905: Independent Studies in Biochemistry and Molecular Biology

BCH 6910: Supervised Research

BCH 6936: Biochemistry Seminar

BCH 6971: Research for Master's Thesis

BCH 7410: Advanced Gene Regulation

BCH 7412: Epigenetics of Human Disease and Development

BCH 7414: Advanced Chromatin Structure

BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics

BCH 7979: Advanced Research

BCH 7980: BioChem Doctoral Research

BCN 5470: Construction Methods Improvements

BCN 5618C: Comprehensive Estimating

BCN 5625: Construction Cost Analysis

BCN 5705C: Project Management for Construction

BCN 5715: Advanced Construction Labor Problems

BCN 5722: Advanced Construction Planning and Control

BCN 5729: Design-Build Delivery Methods

BCN 5737: Advanced Issues in Construction Safety and Health

BCN 5754C: Site Development

BCN 5776: International Construction Business Management

BCN 5778: Facilities Operation and Maintenance

BCN 5789C: Construction Project Delivery

BCN 5874: Equipment and Methods for Heavy Construction

BCN 5885: Methods and Management for Heavy Construction

BCN 5905: Special Studies in Construction

BCN 5949: Graduate Construction Management Internship

BCN 5957: Advanced International Studies in Construction

BCN 6036: Research Methods in Construction

BCN 6580: High-Performance Green Building Delivery Systems

BCN 6585: Sustainable Construction

BCN 6586: Construction Ecology and Metabolism

BCN 6621: Bidding Strategy

BCN 6641: Construction Value Engineering

BCN 6748: Construction Law

BCN 6755: Construction Financial Management

BCN 6756: Housing Economics and Policy

BCN 6777: Construction Management Processes

BCN 6785: Construction Information Systems

BCN 6905: Directed Independent Study in Construction

BCN 6910: Supervised Research

BCN 6933: Advanced Construction Management

BCN 6934: Construction Research

BCN 6940: Supervised Teaching

BCN 6971: Research for Master's Thesis

BME 5052L: Biomedical Engineering Laboratory

BME 5085: Patents, Product Development, and Technology Transfer

BME 5401: Biomedical Engineering and Physiology I

BME 5407: Molecular Biomedical Engineering

BME 5500: Biomedical Instrumentation

BME 5580: Introduction to Microfluidics and BioMEMS

BME 5703: Statistical Methods for Biomedical Engineering

BME 5704: Advanced Computational Methods for Biomedical Engineering

BME 5937: Special Topics

BME 6010: Clinical Preceptorship

BME 6221: Biomolecular Cell Mechanics

BME 6322: Dynamics of Cellular Processes

BME 6324: Stem Cell Engineering

BME 6330: Cell and Tissue Engineering

BME 6360: Neural Engineering

BME 6502: Introduction to Medical Imaging

BME 6505: Advanced Diagnostic Radiological Physics

BME 6522: Biomedical Multivariate Signal Processing

BME 6533: Radiologic Anatomy

BME 6534: Advanced Therapeutic Radiological Physics

BME 6535: Radiological Physics, Measurements and Dosimetry

BME 6590: Medical Physics

BME 6591: Therapeutic Radiological Physics I

BME 6592: Therapeutic Radiological Physics II

BME 6593: Therapeutic Radiological Physics III

BME 6644: Pharmacokinetics

BME 6705: Mathematical Modeling of Biological and Physiological Systems

BME 6905: Individual Work in Biomedical Engineering

BME 6907: BME Project

BME 6910: Supervised Research

BME 6936: Biomedical Engineering Seminar

BME 6938: Special Topics in Biomedical Engineering

BME 6940: Supervised Teaching

BME 6971: Research for Master's Thesis

BME 7979: Advanced Research

BME 7980: Research for Doctoral Dissertation

BOT 5225C: Plant Anatomy

BOT 5305: Paleobotany

BOT 5505C: Intermediate Plant Physiology

BOT 5625: Plant Geography

BOT 5655C: Physiological Plant Ecology

BOT 5685C: Tropical Botany

BOT 5695C: Ecosystems of Florida

BOT 5725C: Taxonomy of Vascular Plants

BOT 6508C: Proteomics Theory and Practice

BOT 6516: Plant Metabolism

BOT 6566: Plant Growth and Development

BOT 6716C: Advanced Taxonomy

BOT 6726C: Principles of Systematic Biology

BOT 6905: Individual Studies in Botany

BOT 6910: Supervised Research

BOT 6927: Advances in Botany

BOT 6935: Special Topics

BOT 6936: Graduate Student Seminar

BOT 6940: Supervised Teaching

BOT 6943: Internship in College Teaching

BOT 6971: Research for Master's Thesis

BOT 7979: Advanced Research

BOT 7980: Research for Doctoral Dissertation

BUL 5445: Ethical Role of the Manager

BUL 5810: Legal Environment of Business

BUL 5811: Managers and Legal Environment of Business

BUL 5831: Commercial Law

BUL 5832: Commercial Law for Accountants

BUL 6440: Business Ethics and Corporation Social Responsibility

BUL 6441: Business Ethics and Corporate Social Responsibility

BUL 6516: Law of Real Estate Transactions

BUL 6652: Law and Ethics of Corporate Governance

BUL 6656: Law for Entrepreneurs

BUL 6821: Cyberlaw and Ethics

BUL 6841: Employment Law

BUL 6851: International Business Law

BUL 6852: International Business Law

BUL 6891: Legal Aspects of Technology Management

BUL 6905: Individual Work

BUL 6930: Special Topics

CAP 5100: Human-Computer Interaction

CAP 5416: Computer Vision

CAP 5510: Bioinformatics

CAP 5515: Computational Molecular Biology

CAP 5635: Artificial Intelligence Concepts

CAP 5705: Computer Graphics

CAP 5805: Computer Simulation Concepts

CAP 6137: Malware Reverse Engineering

CAP 6402: Aesthetic Computing

CAP 6516: Medical Image Analysis

CAP 6610: Machine Learning

CAP 6615: Neural Networks for Computing

CAP 6617: Advanced Machine Learning

CAP 6685: Expert Systems

CAP 6701: Advanced Computer Graphics

CBH 6056: Comparative Psychology

CCE 5035: Construction Planning and Scheduling

CCE 5405: Construction Equipment and Procedures

CCE 6037: Civil Engineering Operations I

CCE 6038: Innovative Construction Techniques

CCE 6505: Computer Applications in Construction Engineering

CCE 6507: Computer Applications in Construction Engineering II

CCE 6516: Topics in Airborne Laser Mapping Technology

CCJ 5934: Contemporary Issues in Criminology and Law

CCJ 6063: Communities and Crime

CCJ 6285: Criminal Justice Process

CCJ 6619: Crime and the Life Course

CCJ 6643: White Collar Crime

CCJ 6658: Drugs, Crime, and Policy

CCJ 6705: Research Methods in Crime, Law, and Justice

CCJ 6708: Research Issues in Crime and Deviance

CCJ 6712: Evaluation Research

CCJ 6905: Independent Study

CCJ 6910: Supervised Research

CCJ 6920: Seminar in Criminological Theory

CCJ 6936: Proseminar in Crime, Law, and Justice

CCJ 6971: Research for Master's Thesis

CCJ 7742: Research Methods in Crime, Law, and Justice II

CCJ 7921: Professional Development in Criminology, Law, and Society

CCJ 7979: Advanced Research

CCJ 7980: Research for Doctoral Dissertation

CDA5155: Computer Architecture Principles

CDA5636: Embedded Systems

CDA6156: High Performance Computer Architecture

CEG 5105: Geotechnical Engineering

CEG 5114: Advanced Geotechnical Aspects of Landfill Design

CEG 5115: Foundation Design

CEG 5205C: Insitu Measurement of Soil Properties

CEG 5206: Geosensing I

CEG 5805: Ground Modification Design

CEG 6015: Advanced Soil Mechanics

CEG 6116: Advanced Shallow Foundation Design

CEG 6117: Advanced Deep Foundation Design

CEG 6201: Experimental Determination of Soil Properties

CEG 6207: Geosensing II

CEG 6405: Seepage in Soils

CEG 6505: Numerical Methods of Geomechanics

CEG 6515: Earth Retaining Systems and Slope Stability

CEN 5035: Software Engineering

CEN 6070: Software Testing and Verification

CEN 6075: Software Specification

CES 5010: Probabilistic and Stochastic Methods in Civil Engineering

CES 5116: Finite Elements in Civil Engineering

CES 5325: Design of Highway Bridges

CES 5606: Topics in Steel Design

CES 5607: Behavior of Steel Structures

CES 5715: Prestressed Concrete

CES 5726: Design of Concrete Systems

CES 5801: Design and Construction in Timber

CES 5835: Design of Reinforced Masonry Structures

CES 6106: Advanced Structural Analysis

CES 6108: Structural Dynamics

CES 6165: Computer Methods in Structural Engineering

CES 6551: Design of Folded Plates and Shells

CES 6571: Design of Temporary Structures

CES 6585: Wind Engineering

CES 6588: Protective Structures

CES 6590: Impact Engineering

CES 6591: Applied Protective Structures

CES 6592: Retrofit Protective Structures

CES 6593: Advanced Protective Structures

CES 6706: Advanced Reinforced Concrete

CES 6855: Condition Assessment of Structures

CGN 5125: Legal Aspects of Civil Engineering

CGN 5315: Civil Engineering Systems

CGN 5605: Public Works Planning

CGN 5606: Public Works Management

CGN 5715: Experimentation and Instrumentation in Civil Engineering Materials Research

CGN 6150: Engineering Project Management

CGN 6155: Civil Engineering Practice I

CGN 6156: Construction Engineering II

CGN 6505: Properties, Design and Control of Concrete

CGN 6506: Bituminous Materials

CGN 6525: Sustainable Materials

CGN 6905: Special Problems in Civil Engineering

CGN 6910: Supervised Research

CGN 6936: Civil Engineering Graduate Seminar

CGN 6940: Supervised Teaching

CGN 6971: Research for Master's Thesis

CGN 6972: Research for Engineer's Thesis

CGN 6974: Master of Engineering or Engineer Degree Report

CGN 7979: Advanced Research

CGN 7980: Research for Doctoral Dissertation

CHM 5224: Basic Principles for Organic Chemistry

CHM 5235: Organic Spectroscopy

CHM 5275: The Organic Chemistry of Polymers

CHM 5305: Chemistry of Biological Molecules

CHM 5413L: Advanced Physical Chemistry Laboratory

CHM 5511: Physical Chemistry of Polymers

CHM 6036: Chemical Biology

CHM 6037: Chemical Biology and Biochemistry Seminar

CHM 6153: Electrochemical Processes

CHM 6154: Chemical Separations

CHM 6155: Spectrochemical Methods

CHM 6158C: Electronics and Instrumentation

CHM 6159: Mass Spectrometric Methods

CHM 6165: Chemometrics

CHM 6180: Special Topics in Analytical Chemistry

CHM 6190: Analytical Chemistry Seminar

CHM 6225: Advanced Principles of Organic Chemistry

CHM 6226: Advanced Synthetic Organic Chemistry

CHM 6227: Topics in Synthetic Organic Chemistry

CHM 6251: Organometallic Compounds

CHM 6271: The Chemistry of High Polymers

CHM 6301: Enzyme Mechanisms

CHM 6302: Chemistry and Biology of Nucleic Acids

CHM 6303: Methods in Computational Biochemistry and Structural Biology

CHM 6306: Special Topics in Biological Chemistry Mechanisms

CHM 6381: Special Topics in Organic Chemistry

CHM 6390: Organic Chemistry Seminar Presentation

CHM 6391: Organic Chemistry Seminar Discussion

CHM 6430: Chemical Thermodynamics

CHM 6461: Statistical Thermodynamics

CHM 6470: Chemical Bonding and Spectra I

CHM 6471: Chemical Bonding and Spectra II

CHM 6480: Elements of Quantum Chemistry

CHM 6490: Theory of Molecular Spectroscopy

CHM 6520: Chemical Physics

CHM 6580: Special Topics in Physical Chemistry

CHM 6586: Computational Chemistry

CHM 6590: Physical Chemistry Seminar

CHM 6620: Advanced Inorganic Chemistry I

CHM 6621: Advanced Inorganic Chemistry II

CHM 6626: Applications of Physical Methods in Inorganic Chemistry

CHM 6628: Chemistry of Solid Materials

CHM 6670: Inorganic Biochemistry

CHM 6680: Special Topics in Inorganic Chemistry

CHM 6690: Inorganic Chemistry Seminar

CHM 6720: Chemical Dynamics

CHM 6905: Individual Problems, Advanced

CHM 6910: Supervised Research

CHM 6934: Advanced Topics in Chemistry

CHM 6935: Chemistry Colloquium

CHM 6943: Internship in College Teaching

CHM 6971: Research for Master's Thesis

CHM 7485: Special Topics in Theory of Atomic and Molecular Structure

CHM 7979: Advanced Research

CHM 7980: Research for Doctoral Dissertation

CHS 5110L: Radiochemistry Laboratory

CIS 6905: Individual Study

CIS 6910: Supervised Research

CIS 6930: Special Topics in CIS

CIS 6935: Graduate Seminar

CIS 6940: Supervised Teaching

CIS 6971: Research for Master's Thesis

CIS 7979: Advanced Research

CIS 7980: Research for Doctoral Dissertation

CJC 6120: Corrections and Public Policy

CJL 6039: Law and Society

CJL 6089: Humanitarian Law

CJL 6090: Law and Social Science

CJL 6091: Anthropology of Law

CJL 6095: Human Rights in Cultural Context

CLA 6125: Augustan Age

CLA 6515: Roman Dynasty: Nero and the Julio-Claudians

CLA 6795: Greek and Roman Archeology

CLA 6805: The Classical Research Tradition

CLA 6885: Roman Law and Society

CLA 6895: Athenian Law and Society

CLA 6905: Individual Work

CLA 6930: Greece and the Near East

CLP 5316: Health Psychology

CLP 5426: Introduction to Neuropsychology

CLP 6169: Seminar: Psychology and Deviant Behavior

CLP 6304: Psychological Foundations of Clinical Psychology I

CLP 6307: Human Higher Cortical Functioning

CLP 6308: Psychological Foundations of Clinical Psychology II

CLP 6309: Psychological Foundations of Clinical Psychology III

CLP 6344C: Lifespan Foundations of Behavioral Health and Illness I

CLP 6345: Lifespan Foundations of Behavioral Health and Illness II

CLP 6375: Introduction to Clinical Psychology

CLP 6407: Psychological Treatment I

CLP 6417: Psychological Treatment II

CLP 6425: Seminar in Clinical Neuropsychology

CLP 6430: Clinical Psychological Assessment

CLP 6434C: Clinical Psychology Assessment I

CLP 6435C: Clinical Psychology Assessment II

CLP 6446C: Psychological Assessment of Children

CLP 6447C: Psychological Assessment of Adults

CLP 6476: Lifespan Psychopathology

CLP 6497: Psychopathological Disturbances

CLP 6527C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology I

CLP 6528C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology II

CLP 6529: Applied Multivariate Methods in Psychology

CLP 6905: Individual Work

CLP 6910: Supervised Research

CLP 6940: Supervised Teaching

CLP 6943: Core Practicum in Clinical Psychology

CLP 6945: Advanced Practicum in Neuropsychology

CLP 6946: Advanced Practicum in Applied Medical Psychology

CLP 6947: Practicum in Intervention

CLP 6948: Advanced Practicum in Clinical Child Psychology

CLP 6971: Research for Master's Thesis

CLP 7317: Advanced Health Psychology and Behavior Medicine

CLP 7404C: Special Issues, Methods, and Techniques in Psychological Treatment

CLP 7427C: Neuropsychological Assessment of Children

CLP 7428C: Neuropsychological Assessment of Adults

CLP 7525: Best Methods for Studying Psychological Change

CLP 7934: Special Topics In Clinical Psychology

CLP 7949: Internship

CLP 7979: Advanced Research

CLP 7980: Research for Doctoral Dissertation

CLT 6295: Greek Drama in Translation

CNT 5106C: Computer Networks

CNT 5410: Computer and Network Security

CNT 5412: Network and System Security

CNT 5517: Mobile Computing

CNT 6107: Advanced Computer Networks

CNT 6805: Network Science and Applications

CNT 6885: Distributed Multimedia Systems

COM 6315: Advanced Research Methods

COM 6338: Advanced Web Topics I: Advanced Design

COM 6940: Supervised Teaching

COP 5536: Advanced Data Structures

COP 5555: Programming Language Principles

COP 5615: Distributed Operating System Principles

COP 5618: Concurrent Programming

COP 5625: Programming Language Translators

COP 5725: Database Management Systems

COP 6726: Database System Implementation

COP 6755: Distributed Database Systems

COT 5405: Analysis of Algorithms

COT 5442: Approximation Algorithms

COT 5519: Sparse Matrix Algorithms

COT 5520: Computational Geometry

COT 5615: Mathematics for Intelligent Systems

COT 6315: Formal Languages and Computation Theory

CPO 5935: Advanced Topics in Comparative Politics

CPO 6046: Politics in Advanced Industrial Societies

CPO 6059: Democracy and Its Competitors

CPO 6077: Social Movements in Comparative Perspective

CPO 6091: Introduction to Comparative Political Analysis

CPO 6206: Seminar in African Politics

CPO 6307: Latin American Politics I

CPO 6732: Democratization and Regime Transition

CPO 6736: Post-Communist politics

CPO 6756: Comparative Elections and Party Systems

CPO 6757: The European Union In Comparative Perspective

CPO 6786: Peasant Politics and Society

CPO 6795: Environmental Politics

CPO 6796: Water Politics

CRW 6130: Fiction Writing

CRW 6166: Studies in Literary Form

CRW 6331: Verse Writing

CRW 6906: Individual Work

CWR 5125: Groundwater Flow I

CWR 5127: Evaluation of Groundwater Quality

CWR 5235: Open Channel Hydraulics

CWR 6115: Surface Hydrology

CWR 6116: Advanced Surface Hydrology

CWR 6126: Variable-Density Groundwater Flow

CWR 6236: Sediment Transport I

CWR 6240: Mixing and Transport in Turbulent Flow

CWR 6252: Environmental Biochemistry of Trace Metals

CWR 6255: Diffusive and Dispersive Transport

CWR 6525: Groundwater Flow II

CWR 6536: Stochastic Subsurface Hydrology

CWR 6537: Contaminant Subsurface Hydrology

DAA 6757: Pilates Technique for the Dancer

DAA 6905: Graduate Dance Project

DAN 6436: Laban Movement Analysis

DAN 6949: Dance Clinical Practice

DCP 6205: Ecological Issues in Sustainability and the Built Environment

DCP 6211: Preservation Topics, Issues, and Practice

DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning

DCP 6710: History and Theory of Historic Preservation

DCP 6711: History of the Built Environment for Preservation Practice

DCP 6712: Preservation Technology: Conserving Modern Buildings

DCP 6713: Historic Preservation: Principles, Practice, and Engineering

DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation

DCP 6715: Preservation Building Technology

DCP 6716: Cultural Resource Management

DCP 6730: Preservation Policy

DCP 6905: Independent Study

DCP 6931: Special Topics in Design, Construction, and Planning

DCP 6943: Practicum in Historic Preservation

DCP 6971: Research for Master's Thesis

DCP 7790: Doctoral Core I

DCP 7792: Doctoral Core II

DCP 7794: Doctoral Seminar

DCP 7911: Advanced Design, Construction, and Planning Research I

DCP 7940: Supervised Teaching

DCP 7949: Professional Internship

DCP 7979: Advanced Research

DCP 7980: Research for Doctoral Dissertation

DEN 6602: Orthodontic Treatment--Appliance Management and Effect of Treatment Part 1: Class I Treatment

DEN 6603: Orthodontic Treatment--Appliance Management and Effect of Treatment Part 2: Class II Treatment

DEN 6604: Orthodontic Treatment--Appliance Management and Effect of Treatment Part 3: Class II Treatment and Overbite Treatments

DEN 6605: Orthodontic Treatment--Appliance Management and Effect of Treatment Part 4: Class II Treatment and Overbite

Treatments

DEN 6606: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 5: Class III and Crossbite Treatments and Soft Tissue Considerations

DEN 6607: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 6: Impactions, Transplantations and Stability

DEN 6608: Analysis, Diagnosis, and Treatment Planning: Part I

DEN 6609: Analysis, Diagnosis, and Treatment Planning: Part II

DEN 6610: Biology of Tooth Movement: Part I

DEN 6612: Orthodontic Biomechanics: Part I

DEN 6613: Orthodontic Biomechanics: Part II

DEN 6614: Ortho-Perio Relationships: Part I

DEN 6615: Ortho-Perio Relationships: Part II

DEN 6616: Orthognathic Surgery: Part I

DEN 6617: Orthognathic Surgery: Part II

DEN 6618: Postnatal Growth and Development

DEN 6622: Principles of Occlusion

DEN 6623: Maxillofacial Prosthetics

DEN 6624: Dental Implant Restoration

DEN 6625: Fixed Prosthodontic Ceramics

DEN 6626: Advanced Removable Partial Dentures

DEN 6627: Treatment Planning Seminar

DEN 6642: Introduction to Advanced Endodontics

DEN 6643: Treatment Planning/Cases Presentation

DEN 6644: Nonsurgical Endodontic Care I

DEN 6645: Nonsurgical Endodontic Care II

DEN 6646: Surgical Endodontics I

DEN 6647: Surgical Endodontics II

DEN 6652: Review of Periodontics Literature I

DEN 6653: Review of Periodontics Literature II

DEN 6654: Review of Periodontics Literature III

DEN 6655: Review of Periodontics Literature IV

DEN 6656: Introduction to Advanced Periodontology

DEN 6657: Periodontal Histology and Histopathology

DEN 6658: Treatment Planning in Periodontal Therapy

DEN 6670: Craniofacial Anomalies

DEN 6671: Prenatal Growth and Development

DEN 6672: Materials in Orthodontics

DEN 6674: Advanced Oral Pathology

DEN 6675: Craniofacial Pain

DEN 6678: Advanced Oral Medicine and Drug Interactions in Dentistry

DEN 6679: Advanced Radiology and Interpretation

DEN 6680: Principles and Craniofacial Biology and Emerging Therapies

DEN 6681: Craniofacial Pathobiology

DEN 6905: Individual Study

DEN 6910: Supervised Research

DEN 6934: Special Topics in Dentistry

DEN 6935: Special Topics in Dentistry

DEN 6936: Practice Management

DEN 6940: Supervised Teaching

DEN 6941: Clinical Teaching in Dentistry

DEN 6942: Grand Rounds

DEN 6971: Research for Master's Thesis

DEN 6973: Project in Lieu of Thesis

DEP 6057: Advanced Developmental Psychology I

DEP 6058: Advanced Developmental Psychology II

DEP 6059: Seminar: Special Topics in Developmental Psychology

DEP 6099: Survey of Developmental Psychology

DEP 6216: Psychological Disturbances of Children

DEP 6406: Advanced Adulthood and Aging

DEP 6409: Seminar: Adult Development and Aging

DEP 6799: Current Research Methods in Developmental Psychology

DEP 6936: Current Research in Developmental Psychology

DEP 7608: Theories of Developmental Psychology

DIE 6241: Advanced Medical Nutrition Therapy

DIE 6242: Advanced Medical Nutrition Therapy II

DIE 6516: Professional Development in Dietetics

DIE 6905: Problems in Dietetics

DIE 6938: Advanced Dietetic Seminar

DIE 6942: Dietetic Internship I

DIE 6944: Dietetic Internship II

DIE 6949: Dietetic Internship in Sports Nutrition

DIG 5555C: Digital Media Projection Design I

DIG 5931C: Special Topics

DIG 6027C: Interactive Storytelling

DIG 6028: Roots of Digital Culture

DIG 6050C: Entertainment Technology

DIG 6125C: Digital Design & Visualization

DIG 6126C: Interaction Design

DIG 6256C: Audio Design For Digital Production

DIG 6288: Music and Sound Design for Digital Media

DIG 6358C: APPLIED 3D MODELING

DIG 6556C: Digital Media Projection Design II

DIG 6589C: Digital Portfolio

DIG 6719: Videogame Theory and Analysis

DIG 6744C: Movement, Media and Machines

DIG 6746C: Graduate Seminar in Sensors and Electronics

DIG 6751C: Protocols for Multimedia Interfaces

DIG 6788C: Digital Production & Game Design

DIG 6840C: Interdisciplinary Research Seminar in Digital Arts & Sciences

DIG 6850C: Digital Arts & Sciences Convergence

DIG 6906: Independent Study - Graduate Level

DIG 6950C: Digital Performance Production

DIG 6971: Research for Master's Thesis

DIG 6973: Capstone Project in Lieu of Thesis

EAB 5436: Behavioral Pharmacology

EAB 6099: Survey of Behavior Analysis

EAB 6118: Theoretical Foundations of Behavior Analysis

EAB 6707: Applied Behavior I

EAB 6712: Experimental Psychopathology

EAB 6716: Behavior Analysis in Developmental Disabilities

EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research

EAB 6750: Quantitative Methods

EAB 6780: Ethics and Professional Issues

EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior

EAB 6939: Seminar: Special Topics in Applied Behavior Analysis

EAB 7089: Advanced Seminar: Experimental Analysis of Behavior

EAB 7090: Verbal Behavior

EAP 5835: Academic Spoken English I

EAP 5836: Academic Spoken English II

EAP 5837: Academic Spoken English Tutorial

EAP 5845: Academic Writing

EAP 5846: Research and Technical Writing

EAP 5937: Special Topics in Academic Spoken English

EAS 5938: Special Topics in Aerospace Engineering

EAS 6135: Molecular Theory of Fluid Flows

EAS 6138: Gasdynamics

EAS 6242: Advanced Structural Composites

EAS 6415: Guidance and Control of Aerospace Vehicles

EAS 6905: Aerospace Research

EAS 6910: Supervised Research

EAS 6935: Graduate Seminar

EAS 6939: Special Topics in Aerospace Engineering

EAS 6971: Research for Master's Thesis

EAS 7979: Advanced Research

EAS 7980: Research for Doctoral Dissertation

ECH 5708: Disinfection, Sterilization, and Preservation

ECH 5938: Topics in Colloid Science

ECH 6126: Thermodynamics of Reaction and Phase Equilibria

ECH 6270: Continuum Basis of Chemical Engineering

ECH 6272: Molecular Basis of Chemical Engineering

ECH 6285: Transport Phenomena

ECH 6326: Computer Control of Processes

ECH 6506: Chemical Engineering Kinetics

ECH 6526: Reactor Design and Optimization

ECH 6709: Electrochemical Engineering Fundamentals and Design

ECH 6726: Interfacial Phenomena I

ECH 6727: Interfacial Phenomena II

ECH 6843: Experimental Basis of Chemical Engineering

ECH 6847: Mathematical Basis of Chemical Engineering

ECH 6851: Impedance Spectroscopy

ECH 6905: Individual Work

ECH 6910: Supervised Research

ECH 6926: Graduate Seminar

ECH 6937: Topics in Chemical Engineering I

ECH 6939: Topics in Chemical Engineering III

ECH 6940: Supervised Teaching

ECH 6971: Research for Master's Thesis

ECH 7938: Advanced Special Chemical Engineering Topics for Doctoral Candidates

ECH 7979: Advanced Research

ECH 7980: Research for Doctoral Dissertation

ECO 5715: Open Economy Macroeconomics

ECO 6075: Economics/Consumer Education

ECO 6407: Game Theory and Competitive Strategy: Theory and Cases

ECO 6409: Game Theory Applied to Business Decisions

ECO 6716: International Macroeconomics

ECO 6906: Individual Work in Economics

ECO 6910: Supervised Research

ECO 6936: Special Topics

ECO 6940: Supervised Teaching

ECO 6957: International Studies in Economics

ECO 6971: Research for Master's Thesis

ECO 7113: Information Economics

ECO 7115: Microeconomic Theory

ECO 7118: Markets and Institutions

ECO 7119: Information, Incentives, and Agency Theory

ECO 7120: General Equilibrium and Welfare Economics

ECO 7206: Macroeconomic Theory I

ECO 7272: Economic Growth I

ECO 7404: Game Theory for Economists

ECO 7405: Mathematical Economics: Game Theory

ECO 7406: Dynamic Economics: Theory and Applications

ECO 7408: Mathematical Methods and Applications to Economics

ECO 7415: Statistical Methods in Economics

ECO 7424: Econometric Models and Methods

ECO 7426: Econometric Methods I

ECO 7427: Econometric Methods II

ECO 7452: Best Empirical Practices in Economics

ECO 7516: Tax Theory and Public Policy

ECO 7525: Welfare Economics and The Second Best

ECO 7534: Empirical Public Economics I

ECO 7535: Empirical Public Economics II

ECO 7536: Theoretical Public Economics

ECO 7706: Theory of International Trade

ECO 7707: International Economic Relations

ECO 7925: Research Skills Workshop

ECO 7938: Advanced Economics Seminar

ECO 7979: Advanced Research

ECO 7980: Research for Doctoral Dissertation

ECP 5415: Antitrust Policy and Managerial Decisions

ECP 5702: Managerial Economics

ECP 5705: Economics of Business Decisions

ECP 6407: Economics for Managing Information for Electronic Commerce

ECP 6417: Public Policy and Social Control

ECP 6701: Competitive Strategies in Expanding Markets

ECP 6708: Cases in Competitive Strategy

ECP 7407: Theory of Industrial Organization:Product Differentiation and Strategy

ECP 7408: Empirical Industrial Organization

ECP 7418: Economics of Regulation

ECP 7419: Current Research in Regulation

EDA 5938: Special Topics

EDA 6061: Educational Organization and Administration

EDA 6107: Leading Change in Educational Organizations

EDA 6192: Educational Leadership: The Individual

EDA 6193: Educational Leadership: Instruction

EDA 6195: Educational Policy Development

EDA 6215: Communications in Educational Leadership

EDA 6222: Administration of School Personnel

EDA 6225: Labor Relations in Public Education

EDA 6232: Public School Law

EDA 6242: Public School Finance

EDA 6271: Technology Leadership for Educational Administrators

EDA 6423: Data-Driven Decision Making in Educational Organizations

EDA 6503: The Principalship

EDA 6905: Individual Work

EDA 6931: Special Topics

EDA 6935: Problems in School Administration and Supervision

EDA 6948: Supervised Practice in School Administration

EDA 6971: Research for Master's Thesis

EDA 7206: Organizational Leadership in Education

EDA 7945: Practicum in Supervision and Administration

EDA 7979: Advanced Research

EDA 7980: Research for Doctoral Dissertation

EDA 7985: Research Design in Educational Administration

EDE 5940: Integrated Teaching and Learning

EDE 6225: Practices in Childhood Education

EDE 6266: Teaching and Learning in Elementary Classrooms

EDE 6325: Teacher Inquiry/Action Research

EDE 6905: Individual Work

EDE 6910: Supervised Research

EDE 6932: Special Topics

EDE 6948: Internship in Elementary Schools

EDE 7047: Issues in Teacher Education

EDE 7935: Seminar in Curriculum & Instruction

EDF 5441: Assessment in General and Exceptional Student Education

EDF 5552: Role of School in Democratic Society

EDF 6113: Educational Psychology: Human Development

EDF 6211: Educational Psychology: General

EDF 6215: Educational Psychology: Learning Theory

EDF 6232: Principles of Learning and Instructional Practice

EDF 6400: Quantitative Foundations of Education Research Overview

EDF 6401: Educational Statistics

EDF 6402: Quantitative Foundations in Educational Research: Inferential Statistics

EDF 6403: Quantitative Foundations of Educational Research

EDF 6434: Educational Measurement

EDF 6436: Theory of Measurement

EDF 6471: Survey Design and Analysis in Educational Research

EDF 6475: Qualitative Foundations of Educational Research

EDF 6481: Quantitative Research Methods in Education

EDF 6520: History of Education

EDF 6544: Philosophical Foundations of Education

EDF 6606: Socioeconomic Foundations of Education

EDF 6616: Education and American Culture

EDF 6630: Educational Sociology

EDF 6812: Comparative Education

EDF 6820: Education in Latin America

EDF 6905: Individual Study

EDF 6910: Supervised Research

EDF 6938: Special Topics

EDF 6940: Supervised Teaching

EDF 6941: Practicum in Educational Research

EDF 6971: Research for Master's Thesis

EDF 7117: Affective Development and Education

EDF 7405: Advanced Quantitative Foundations of Educational Research

EDF 7412: Structural Equation Models

EDF 7413: Advanced Topics in Structural Equation Modeling

EDF 7435: Rating Scale Design and Analysis in Educational Research

EDF 7439: Item Response Theory

EDF 7474: Multilevel Models

EDF 7479: Qualitative Data Analysis: Approaches and Techniques

EDF 7482: Quasi-experimental Design and Analysis in Educational Research

EDF 7483: Qualitative Data Collection: Approaches and Techniques

EDF 7486: Methods of Educational Research

EDF 7491: Evaluation of Educational Products and Systems

EDF 7555: Values and Ethics in Education

EDF 7639: Research in Educational Sociology

EDF 7931: Seminar in Educational Research

EDF 7932: Multivariate Analysis in Educational Research

EDF 7934: Seminar in Educational Foundations

EDF 7979: Advanced Research

EDF 7980: Research for Doctoral Dissertation

EDG 5666: Knowing and Learning in STEM

EDG 6017: Writing for Academic Purposes

EDG 6047: Teacher Leadership for Educational Change

EDG 6207: Transforming the Curriculum

EDG 6225: Global Studies Methods in K-12 Education

EDG 6226: Foundations of Research in Curriculum & Instruction

EDG 6250: The School Curriculum

EDG 6285: Evaluation in the School Program

EDG 6348: Instructional Coaching for Enhanced Student Learning

EDG 6356: Teaching, Learning and Assessment

EDG 6415: Culturally Responsive Classroom Management

EDG 6445: Meeting the Educational Needs of Students Living in Poverty

EDG 6905: Individual Work

EDG 6910: Supervised Research

EDG 6931: Special Topics

EDG 6940: Supervised Teaching

EDG 6953: TLSI Online Portfolio Preparation

EDG 6971: Research for Master's Thesis

EDG 6973: Project in Lieu of Thesis

EDG 7222: Curriculum: Theory and Research

EDG 7224: Critical Pedagogy

EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education

EDG 7303: Teacher Learning and Socialization in High Poverty Schools

EDG 7326: Differentiated Supervision and Teacher Professional Development

EDG 7359: Professional Development and Teacher Learning

EDG 7665: Bases of Curriculum and Instruction Theory

EDG 7941: Field Experience in Curriculum and Instruction

EDG 7979: Advanced Research

EDG 7980: Research for Doctoral Dissertation

EDG 7982: Practitioner Research: Theory & Practice

EDH 6040: Theory of College Student Development

EDH 6046: Diversity Issues in Higher Education

EDH 6049: Domestic and International College Student Services

EDH 6051: Educational Outcomes of American Colleges and Universities

EDH 6053: The Community Junior College in America

EDH 6066: American Higher Education

EDH 6067: Seminar: International Higher Education

EDH 6305: College and University Teaching

EDH 6360: Foundations and Functions of College Student Personnel

EDH 6361: Theories and Assessment of Higher Educational Environments

EDH 6503: Resource Development in Higher Education

EDH 6632: Current Issues in Community College Leadership

EDH 6637: Crisis Management in Higher Education

EDH 6931: Special Topics in Higher Education

EDH 6935: Seminar in College Student Personnel Administration

EDH 6945: Practicum in College Teaching I

EDH 6946: Practicum in College Teaching II

EDH 6947: Practicum in Student Personnel

EDH 7225: Seminar: Curriculum in Higher Education

EDH 7405: The Law and Higher Education

EDH 7505: The Financing of Higher Education

EDH 7631: Administration of Instruction in Higher Education

EDH 7634: Student Affairs Administration in Higher Education

EDH 7635: Higher Education Administration

EDH 7916: Contemporary Research on Higher Education

EDH 7942: Group Supervision in Student Personnel

EDH 7948: Internship in Student Personnel

EDM 6005: The Emergent Middle School

EDM 6235: Interdisciplinary Planning, Teaching, and Assessment

EDP 6052: Cognitive Psychology Applied to Education

EDS 6140: Supervision of Instruction

EEC 6205: Early Childhood Curriculum

EEC 6304: Creativity in the Early Childhood Curriculum

EEC 6525: Issues in Child Care Administration

EEC 6615: Early Childhood Education: Background and Concepts

EEC 6905: Individual Work

EEC 6910: Supervised Research

EEC 6933: Special Topics

EEC 6940: Supervised Teaching

EEC 6946: Practicum in Early Childhood Education

EEC 7056: Early Childhood Policy and Advocacy

EEC 7617: Early Childhood Assessment & Evaluation

EEC 7666: Theory and Research in Early Childhood Studies

EEC 7979: Advanced Research

EEE 5317C: Introduction to Power Electronics

EEE 5320: Bipolar Analog IC Design

EEE 5322: VLSI Circuits and Technology

EEE 5354L: Semiconductor Device Fabrication Laboratory

EEE 5364: Fundamentals of Data Converters

EEE 5400: Future of Microelectronics Technology

EEE 5405: Microelectronic Fabrication Technologies

EEE 5426: Introduction to Nanodevices

EEE 5502: Foundations of Digital Signal Processing

EEE 5544: Noise in Linear Systems

EEE 5556: Electronic Countermeasures

EEE 6287: Brain Machine Interface Engineering

EEE 6321: MOS Analog IC Design

EEE 6323: Advanced VLSI Design

EEE 6325: Computer Simulation of Integrated Circuits and Devices

EEE 6328C: Microwave IC Design

EEE 6374: Radio Frequency (RF) Integrated Circuits and Technologies

EEE 6382: Semiconductor Physical Electronics

EEE 6390: VLSI Device Design

EEE 6397: Semiconductor Device Theory I

EEE 6402: Nonclassical Si-Based Nanoscale CMOS Devices

EEE 6428: Computational Nanoelectronics

EEE 6431: Carbon Nanotubes

EEE 6460: Advanced Microsystem Technology

EEE 6465: Design of MEMS Transducers

EEE 6503: Digital Filtering

EEE 6504: Adaptive Signal Processing

EEE 6512: Image Processing and Computer Vision

EEE 6586: Automatic Speech Processing

EEL 5182: State Variable Methods in Linear Systems

EEL 5225: Principles of Micro-Electro-Mechanical Transducers

EEL 5400: Airborne Sensors and Instrumentation

EEL 5401: Airborne Laser Scanning: Data Processing and Analysis

EEL 5441: Fundamentals of Photonics

EEL 5462: Advanced Antenna Systems

EEL 5490: Lightning

EEL 5666C: Intelligent Machines Design Laboratory

EEL 5718: Computer Communications

EEL 5721: Reconfigurable Computing

EEL 5737: Principles of Computer System Design

EEL 5764: Computer Architecture

EEL 5840: Elements of Machine Intelligence

EEL 5905: Individual Work

EEL 5934: Special Topics in Electrical Engineering

EEL 6065: Electrical & Computer Engineering Technical Writing

EEL 6264: Advanced Electric Energy Systems I

EEL 6265: Advanced Electric Energy Systems II

EEL 6443: Integrated and Fiber Optics

EEL 6486: Electromagnetic Field Theory and Applications I

EEL 6487: Electromagnetic Field Theory and Applications II

EEL 6507: Queuing Theory and Data Communications

EEL 6509: Wireless Communication

EEL 6528: Digital Communications with Software-defined Radios

EEL 6532: Information Theory

EEL 6533: Statistical Decision Theory

EEL 6535: Digital Communications

EEL 6537: Spectral Estimation

EEL 6550: Error Correction Coding

EEL 6555: Signal Processing for Active Sensing

EEL 6588: Wireless Ad Hoc Networks

EEL 6591: Wireless Networks

EEL 6614: Modern Control Theory

EEL 6617: Linear Multivariable Control

EEL 6619: Robust Control Systems

EEL 6686: Embedded Systems Seminar

EEL 6706: Fault-Tolerant Computer Architecture

EEL 6763: Parallel Computer Architecture

EEL 6769: Hardware-Software Interactions: Nonnumeric Processing

EEL 6814: Neural Networks for Signal Processing

EEL 6825: Pattern Recognition and Intelligent Systems

EEL 6841: Machine Intelligence and Synthesis

EEL 6871: Autonomic Computing

EEL 6892: Virtual Computers

EEL 6905: Individual Work

EEL 6910: Supervised Research

EEL 6933: Electrical and Computer Engineering Graduate Seminar

EEL 6935: Special Topics in Electrical Engineering

EEL 6940: Supervised Teaching

EEL 6971: Research for Master's Thesis

EEL 6972: Research for Engineer's Thesis

EEL 7979: Advanced Research

EEL 7980: Research for Doctoral Dissertation

EES 5105: Advanced Wastewater Microbiology

EES 5107: Ecological and Biological Systems

EES 5207: Environmental Chemistry

EES 5245: Water Quality Analysis

EES 5305C: Ecological and General Systems

EES 5306: Energy Analysis

EES 5307: Ecological Engineering

EES 5315: Ecology and the Environment

EES 5415: Environmental Health

EES 6007: Advanced Energy and Environment

EES 6009: Ecological Economics

EES 6026C: Environmental Systems Dynamics

EES 6028: Spatial Modeling Using Geographic Information Systems

EES 6051: Advanced Environmental Planning and Design

EES 6135: Aquatic Microbiology

EES 6136: Aquatic Autotrophs

EES 6137: Aquatic Heterotrophs

EES 6140: Biology of Exotic Species

EES 6208: Principles of Water Chemistry I

EES 6209: Principles of Water Chemistry II

EES 6225: Atmospheric Chemistry

EES 6246: Advanced Water Analysis

EES 6301: Comparative Approaches in Systems Ecology

EES 6308C: Wetland Ecology

EES 6309: Wetland Treatment Systems

EES 6318: Principles of Industrial Ecology

EES 6335: Springs Ecosystems

EES 6356: Estuarine Systems

EES 6371: Environmental Meteorology and Oceanography

EES 6405: Environmental Toxicology

EEX 5940: Supervised Student Teaching in Special Education

EEX 6053: Foundations of Special Education

EEX 6072: Accessing Academic and Social Communities for Students with Disabilities

EEX 6098: Students with Disabilities in Higher Education

EEX 6125: Interventions for Language and Learning Disabilities

EEX 6219: Reading Assessment and Intervention for Students with Disabilities

EEX 6222: Evaluation in Special Education

EEX 6233: Designing Instruction for Inclusive Classrooms

EEX 6234: Assessment, Curriculum, and Instruction for Students with Severe Disabilities

EEX 6249: Advanced Strategies for Teaching Students with Disabilities

EEX 6269: Academic Strategies for Postsecondary Students with Disabilities

EEX 6296: Differentiated Instruction

EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities

EEX 6661: Teaching and Managing Behavior for Student Learning

EEX 6750: Families and Transition for Students with Disabilities

EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities

EEX 6785: Introduction to Education-Healthcare Transition

EEX 6786: Transdisciplinary and Transition Services in Special Education

EEX 6788: Methods for Integrating Education-Health Care Transition

EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition

EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)

EEX 6835: Practicum in Special Education: Severe Disabilities

EEX 6841: Practicum in Special Education: Mild Disabilities

EEX 6863: Supervised Practice in Special Education

EEX 6905: Individual Work

EEX 6910: Supervised Research

EEX 6936: Special Topics

EEX 6940: Supervised Teaching

EEX 6971: Research for Master's Thesis

EEX 6973: Project in Lieu of Thesis

EEX 7303: Inquiry in Special Education: Analysis of the Literature

EEX 7304: Introduction to Field of Inquiry in Special Education

EEX 7428: Teacher Education in Special Education

EEX 7526: Grant Writing Seminar in Education

EEX 7709: Social-Emotional Learning & Play in Early Childhood

EEX 7787: School Improvement for All Students

EEX 7865: Internship: Special Education

EEX 7934: Seminar: Trends in Special Education

EEX 7979: Advanced Research

EEX 7980: Research for Doctoral Dissertation

EGI 6051: Education of the Gifted Child

EGI 6245: Program Development for the Gifted

EGM 5005: Laser Principles and Applications

EGM 5111L: Experimental Stress Analysis

EGM 5121C: Data Measurement and Analysis

EGM 5533: Applied Elasticity and Advanced Mechanics of Solids

EGM 5584: Biomechanics of Soft Tissue

EGM 5816: Intermediate Fluid Dynamics

EGM 5933: Special Topics in Engineering Science and Mechanics

EGM 6006: Laser-Based Diagnostics

EGM 6321: Principles of Engineering Analysis I

EGM 6322: Principles of Engineering Analysis II

EGM 6323: Principles of Engineering Analysis III

EGM 6341: Numerical Methods of Engineering Analysis I

EGM 6342: Fundamentals of Computational Fluid Dynamics

EGM 6352: Advanced Finite Element Methods

EGM 6365: Structural Optimization

EGM 6570: Principles of Fracture Mechanics

EGM 6611: Continuum Mechanics

EGM 6671: Inelastic Materials

EGM 6812: Fluid Mechanics I

EGM 6813: Fluid Mechanics II

EGM 6855: Bio-Fluid Mechanics and Bio-Heat Transfer

EGM 6905: Individual Study

EGM 6910: Supervised Research

EGM 6934: Special Topics in Engineering Mechanics

EGM 6936: Graduate Seminar

EGM 6971: Research for Master's Thesis

EGM 7819: Computational Fluid Dynamics

EGM 7845: Turbulent Fluid Flow

EGM 7979: Advanced Research

EGM 7980: Research for Doctoral Dissertation

EGN 5010L: NRF Training Lab

EGN 5949: Practicum/Internship/Cooperative Work Experience

EGN 6039: Engineering Leadership

EGN 6640: Entrepreneurship for Engineers

EGN 6642: Engineering Innovation

EIN 6227: Advanced Quality Management and Engineering for Business Processes

EIN 6336: Advanced Production and Inventory Control

EIN 6357: Advanced Engineering Economy

EIN 6367: Facilities Layout and Location

EIN 6392: Manufacturing Management

EIN 6905: Special Problems

EIN 6910: Supervised Research

EIN 6918: Graduate Seminar

EIN 6940: Supervised Teaching

EIN 6971: Research for Master's Thesis

EIN 6972: Research for Engineer's Thesis

EIN 7933: Special Problems

EIN 7979: Advanced Research

EIN 7980: Research for Doctoral Dissertation

EMA 5008: Particle Science and Technology: Theory and Practice

EMA 5095: Critical Analysis of Research in Materials Science & Engineering

EMA 5108: Vacuum Science and Technology

EMA 5365: Biomimetic Synthesis

EMA 6001: Properties of Materials - A Survey

EMA 6005: Thin and Thick Films

EMA 6105: Fundamentals and Applications of Surface Science

EMA 6106: Advanced Phase Diagrams

EMA 6107: High Temperature Materials

EMA 6109: Physical Chemistry of High Temperature Materials

EMA 6110: Electron Theory of Solids for Materials Scientists I

EMA 6111: Electron Theory of Solids for Materials Scientists II

EMA 6114: Advanced Materials Principles 2

EMA 6128: Materials Microstructures

EMA 6136: Diffusion, Kinetics, and Transport Phenomena

EMA 6165: Polymer Physical Science

EMA 6166: Polymer Composites

EMA 6226: Synthesis and Properties of Metallic Nanostructures

EMA 6227: Advanced Mechanical Metallurgy II

EMA 6265: Mechanical Properties of Polymers

EMA 6313: Advanced Materials Principles I

EMA 6315: Colloidal Hydrodynamics

EMA 6316: Materials Thermodynamics

EMA 6319: Applied Colloid and Interfacial Chemistry for Engineers

EMA 6412: Synthesis and Characterization of Electronic Materials

EMA 6416: Organic Electronics

EMA 6445: Electroceramics

EMA 6446: Solid State Ionics

EMA 6448: Ceramic Processing

EMA 6461: Polymer Characterization

EMA 6507: Scanning Electron Microscopy and Microanalysis

EMA 6507L: Scanning Electron Microscopy and Microanalysis Lab

EMA 6510: Survey of Materials Analysis Techniques

EMA 6512C: X-ray Scattering for Thin Film Analysis

EMA 6518: Transmission Electron Microscopy

EMA 6518L: Transmission Electron Microscopy Laboratory

EMA 6519L: Specialized Research Techniques in Materials Science

EMA 6540: Fundamentals of Crystallography

EMA 6541: Applied Crystallography and Powder Diffraction

EMA 6580: Science of Biomaterials I

EMA 6581C: Polymeric Biomaterials

EMA 6589: Mechanical Behavior of Biomaterials

EMA 6590: Advances in Biomaterials and Tissue Engineering for Healthcare

EMA 6591: Clinical Applications of Biomaterials and Tissue Engineering

EMA 6616: Advanced Electronic Materials Processing

EMA 6625: Advanced Metals Processing

EMA 6667: Polymer Processing

EMA 6715: Fracture of Brittle Materials

EMA 6803: Classical Methods in Computational Materials Science

EMA 6804: Quantum Methods in Computational Materials Science

EMA 6805: Mathematical Methods in Materials Science I

EMA 6806: Mathematical Methods in Materials Science II

EMA 6808: Error Analysis and Optimization Methodologies in Materials Research

EMA 6905: Individual Work in Materials Science and Engineering

EMA 6910: Supervised Research

EMA 6936: Seminar in Materials Science and Engineering

EMA 6938: Special Topics in Materials Science and Engineering

EMA 6971: Research for Master's Thesis

EMA 7979: Advanced Research

EMA 7980: Research for Doctoral Dissertation

EME 5054: Foundations of Educational Technology

EME 5207: Designing Technology-Rich Curricula

EME 5315: Communicating with Technology

EME 5316: Educational Technology Management Issues

EME 5403: Instructional Computing I

EME 5404: Instructional Computing II

EME 5405: Internet in K-12 Instruction

EME 5431: Integrating Technology in the Mathematics Classroom

EME 5432: Integrating Technology into Social Science Classroom

EME 5433: Integrating Technology into Science Classroom

EME 6059: Blended Learning Environments

EME 6066: Issues and Trends in Educational Technology Research

EME 6076: Virtual School Philosophy and Pedagogy

EME 6156: Games and Simulations for Teaching and Learning

EME 6205: Digital Photography and Visual Literacy

EME 6208: Designing Integrated Media Environments I

EME 6209: Designing Integrated Media Environments II

EME 6235: Managing Educational Projects

EME 6236: Distance Education Leadership and Management

EME 6405: Educational Technology and Teaching

EME 6458: Distance Teaching and Learning

EME 6505: Educational Television Design and Production

EME 6602: Human-Computer Interactivity and the Learner

EME 6606: Advanced Instructional Design

EME 6609: Instructional Design

EME 6716: Organization and Administration of Educational Media Centers

EME 6935: Seminar: Distance Education Issues and Applications

EME 6945: Practicum in Educational Media and Instructional Design

EME 7938: Seminar in Educational Media and Instructional Design

EML 5045: Computational Methods for Design and Manufacturing

EML 5104: Classical and Statistical Thermodynamics

EML 5124: Two-Phase Flow and Boiling Heat Transfer

EML 5131: Combustion

EML 5215: Analytical Dynamics I

EML 5223: Structural Dynamics

EML 5224: Acoustics

EML 5233: Failure of Materials in Mechanical Design

EML 5311: Control System Theory

EML 5318: Computer Control of Machines and Processes

EML 5455: Clean Combustion Technology

EML 5465: Energy Management for Mechanical Engineers

EML 5515: Gas Turbines and Jet Engines

EML 5516: Design of Thermal Systems

EML 5526: Finite Element Analysis and Application

EML 5595: Mechanics of the Human Locomotor System

EML 5598: Orthopedic Biomechanics

EML 5605: Advanced Refrigeration

EML 5714: Introduction to Compressible Flow

EML 6146: Microscale Heat Transfer

EML 6154: Conduction Heat Transfer

EML 6155: Convective Heat Transfer I

EML 6156: Multiphase Convection Heat Transfer

EML 6157: Radiation Heat Transfer

EML 6216: Analytical Dynamics II

EML 6229: Introduction to Random Dynamical Systems

EML 6267: Structural Dynamics of Production Machinery

EML 6278: Advanced Rotor Dynamics

EML 6281: Geometry of Mechanisms and Robots I

EML 6282: Geometry of Mechanisms and Robots II

EML 6323: Nontraditional Manufacturing

EML 6324: Fundamentals of Production Engineering

EML 6350: Introduction to Nonlinear Control

EML 6351: Nonlinear Control II: Adaptive Control

EML 6352: Optimal Estimation

EML 6365: Robust Control Synthesis

EML 6417: Solar Energy Utilization

EML 6451: Energy Conversion

EML 6606: Advanced Air Conditioning

EML 6905: Individual Projects in Mechanical Engineering

EML 6934: Special Topics in Mechanical Engineering

EML 6936: Nonthesis Project

EML 6971: Research for Master's Thesis

EML 7979: Advanced Research

EML 7980: Research for Doctoral Dissertation

ENC 5236: Advanced Business Writing for Accounting

ENC 5319: Scholarly Writing for Publication

ENC 6428: Digital English

ENG 6016: Psychological Approaches to Literature

ENG 6075: Literary Theory: Issues

ENG 6076: Literary Theory: Theorists

ENG 6077: Literary Theory: Forms

ENG 6137: The Language of Film

ENG 6138: Studies in the Movies

ENG 6906: Individual Work

ENG 6910: Supervised Research

ENG 6932: Film and Video Production

ENG 6971: Research for Master's Thesis

ENG 7939: Seminar in Variable Topics

ENG 7979: Advanced Research

ENG 7980: Research for Doctoral Dissertation

ENL 6206: Studies in Old English

ENL 6216: Studies in Middle English

ENL 6226: Studies in Renaissance Literature

ENL 6236: Studies in Restoration and 18th-Century Literature

ENL 6246: Studies in Romantic Literature

ENL 6256: Studies in Victorian Literature

ENL 6276: Studies in 20th-Century British Literature

ENT 5275: Family Business Management

ENT 6006: Entrepreneurship

ENT 6008: Entrepreneurial Opportunity

ENT 6016: Venture Analysis

ENT 6116: Business Plan Formation

ENT 6416: Venture Finance

ENT 6506: Social Entrepreneurship

ENT 6616: Creativity in Entrepreneurship

ENT 6706: Global Entrepreneurship

ENT 6905: Individual Work in Entrepreneurship

ENT 6930: Special Topics

ENT 6933: Entrepreneurship Lecture Series

ENT 6946: Entrepreneurial Consulting Project

ENT 6950: Integrated Technology Ventures

ENT 6957: International Studies in Entrepreneurship

ENU 5142: Reliability and Risk Analysis for Nuclear Facilities

ENU 5176L: Principles of Nuclear Reactor Operations Laboratory

ENU 5186: Nuclear Fuel Cycles

ENU 5196: Nuclear Reactor Power Plant System Dynamics and Control

ENU 5516L: Nuclear Engineering Laboratory II

ENU 5615C: Nuclear Radiation Detection and Instrumentation

ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab

ENU 5626: Radiation Biology

ENU 5658: Imaging System Analysis with Medical Physics Applications

ENU 5705: Advanced Concepts for Nuclear Energy

ENU 6051: Radiation Interaction Basics and Applications I

ENU 6052: Radiation Transport Basics and Applications

ENU 6053: Radiation Interaction Basics and Applications II

ENU 6061: Survey of Medical Radiological Physics

ENU 6106: Nuclear Reactor Analysis I

ENU 6107: Nuclear Reactor Analysis II

ENU 6126: Fundamentals of Reactor Kinetics

ENU 6135: Nuclear Thermal Hydraulics

ENU 6623: Radiation Dosimetry

ENU 6627: Therapeutic Radiological Physics

ENU 6636: Medical Radiation Shielding & Protection

ENU 6651: Clinical Rotation in Radiation Therapy

ENU 6652: Clinical Rotation in Diagnostic Radiology

ENU 6655: Advanced Diagnostic Radiological Physics

ENU 6657: Diagnostic Radiological Physics

ENU 6659: Nuclear Medicine Instrumentation and Procedure

ENU 6805: Introduction to Nuclear Reactor Materials

ENU 6835: Nuclear Fuels

ENU 6905: Individual Work

ENU 6910: Supervised Research

ENU 6935: Nuclear and Radiological Engineering Seminar

ENU 6936: Special Projects in Nuclear and Radiological Engineering Sciences

ENU 6937: Special Topics in Nuclear and Radiological Engineering Sciences

ENU 6971: Research for Master's Thesis

ENU 6972: Research for Engineer's Thesis

ENU 7979: Advanced Research

ENU 7980: Research for Doctoral Dissertation

ENV 5072: Pollution Control and Prevention

ENV 5075: Environmental Policy

ENV 5105: Foundations of Air Pollution

ENV 5305: Advanced Solid Waste Treatment Design

ENV 5306: Municipal Refuse Disposal

ENV 5518: Field Methods in Environmental Hydrology

ENV 5520: Fluid Flow in Environmental Systems

ENV 5555: Wastewater Treatment

ENV 5565: Hydraulic Systems Design

ENV 6050: Advanced Pollutant Transport

ENV 6052: Immiscible Fluids in Porous Media

ENV 6116: Air Pollution Sampling and Analysis

ENV 6126: Air Pollution Control Design

ENV 6130: Aerosol Mechanics

ENV 6146: Atmospheric Dispersion Modeling

ENV 6215: Health Physics

ENV 6216: Radioactive Wastes

ENV 6301: Advanced Solid Waste Containment Design

ENV 6416: Advanced Stormwater Control Systems

ENV 6435: Advanced Water Treatment Process Design

ENV 6435C: Advanced Water Treatment Process Design

ENV 6435L: Water Treatment Process Design Laboratory

ENV 6437: Advanced Wastewater System Design

ENV 6438: Advanced Potable Water Systems Design

ENV 6439: Activated Carbon: Environmental Design and Application

ENV 6441: Water Resources Planning and Management

ENV 6508: Wetland Hydrology

ENV 6510: Groundwater Restoration

ENV 6511: Biological Wastewater Treatment

ENV 6556: Advanced Waste Treatment Operations

ENV 6617: Principles of Green Engineering Design and Sustainability

ENV 6905: Individual Work

ENV 6910: Supervised Research

ENV 6916: Nonthesis Project

ENV 6932: Special Problems in Environmental Engineering

ENV 6935: Graduate Environmental Engineering Seminar

ENV 6971: Research for Master's Thesis

ENV 7979: Advanced Research

ENV 7980: Research for Doctoral Dissertation

ENV 5006: Graduate Survey of Entomology

ENV 5006L: Graduate Survey of Entomology Laboratory

ENV 5031C: Insect Field Biology

ENV 5151C: Techniques in Insect Systematics

ENV 5160C: Survey of Science with Insects

ENV 5164: Graduate Survey of Invertebrate Field Biology

ENY 5212: Insects and Wildlife

ENY 5223C: Biology and Identification of Urban Pests

ENY 5226C: Principles of Urban Pest Management

ENY 5236: Insect Pest and Vector Management

ENY 5241: Biological Control

ENY 5245: Agricultural Acarology

ENY 5332: Graduate Survey of Urban Vertebrate Pest Management

ENY 5405: Insects as Vectors of Plant Pathogens

ENY 5516: Turf and Ornamental Entomology

ENY 5566: Tropical Entomology

ENY 5567: Tropical Entomology Field Laboratory

ENY 5572: Advanced Apiculture

ENY 5611: Immature Insects

ENY 5820: Insect Molecular Genetics

ENY 6166: Insect Classification

ENY 6203: Insect Ecology

ENY 6203L: Insect Ecology Laboratory

ENY 6248: Termite Biology and Control

ENY 6401: Insect Physiology

ENY 6401L: Insect Physiology Laboratory

ENY 6454: Behavioral Ecology and Systematics of Insects

ENY 6591C: Advanced Mosquito Identification

ENY 6593: Advanced Mosquito Biology

ENY 6651C: Insect Toxicology

ENY 6665: Advanced Medical and Veterinary Entomology I

ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory

ENY 6706: Forensic Entomology

ENY 6706L: Forensic Entomology Laboratory

ENY 6821: Insect Microbiology

ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens

ENY 6905: Problems in Entomology

ENY 6910: Supervised Research

ENY 6931: Entomology Seminar

ENY 6932: Special Topics in Entomology

ENY 6934: Selected Studies in Entomology

ENY 6940: Supervised Teaching

ENY 6942: Insect Diagnostics

ENY 6943: Entomology Internship

ENY 6944: Entomology Extension Internship

ENY 6971: Research for Master's Thesis

ENY 7979: Advanced Research

ENY 7980: Research for Doctoral Dissertation

EOC 5860: Port and Harbor Engineering

EOC 6196: Littoral Processes

EOC 6430: Coastal Structures

EOC 6850: Numerical Simulation Techniques in Coastal and Ocean Engineering

EOC 6905: Individual Study in Coastal and Oceanographic Engineering

EOC 6932: Selected Field and Laboratory Problems

EOC 6934: Advanced Topics in Coastal and Oceanographic Engineering

EOC 6939: Graduate Seminar

EOC 6971: Research for Master's Thesis

EOC 6972: Research for Engineer's Thesis

EOC 7979: Advanced Research

EOC 7980: Research for Doctoral Dissertation

ESC 5211: Current Topics in Earth Science for Teachers

ESE 6215: The Secondary School Curriculum

ESE 6344: Classroom Practices and Assessment in Secondary Education

ESE 6345: Effective Teaching and Classroom Management

ESE 6905: Individual Work

ESE 6939: Special Topics

ESE 6945: Student Teaching in Secondary School

ESI 5236: Reliability Engineering

ESI 6162C: Advanced Industrial Applications of Microprocessors

ESI 6314: Deterministic Methods in Operations Research

ESI 6321: Applied Probability Methods in Engineering

ESI 6323: Models for Supply Chain Management

ESI 6341: Intro to Stochastic Optimization

ESI 6355: Decision Support Systems for Industrial and Systems Engineers

ESI 6417: Linear Programming and Network Optimization

ESI 6418: Linear Programming Extensions and Applications

ESI 6420: Fundamentals of Mathematical Programming

ESI 6429: Introduction to Nonlinear Optimization

ESI 6448: Discrete Optimization Theory

ESI 6449: Integer Programming

ESI 6470: Principles of Manufacturing Systems Engineering

ESI 6492: Global Optimization

ESI 6529: Digital Simulation Techniques

ESI 6533: Advanced Simulation Design and Analysis

ESI 6546: Stochastic Modeling and Analysis

ESI 6552: Systems Architecture

ESI 6553: Systems Design

ESI 6555: Systems Management

ESI 6912: Advanced Topics in ISE

EUH 5195: The Archaeology of the Middle Ages

EUH 5546: Topics in British History

EUH 5934: Topics in European History

EUH 6126: Readings in Medieval History

EUH 6174: Conversion in the Middle Ages

EUH 6175: Ethnicity in the Middle Ages

EUH 6176: Villages and Peasants in the Middle Ages

EUH 6177: Economy and Society in Late Antiquity and the Early Middle Ages

EUH 6213: Europe, 1500-1763

EUH 6289: Readings, Modern Europe

EUH 6469: Modern German History

EUH 6935: Readings, Early Modern Europe

EUH 6937: Readings in Mediterranean History

EVR 5322: Scientific Processes in Conservation and Development

EVR 5705: Natural Resources and Innovation Systems

EVR 6320: Sustainable Natural Resource Management

EVR 6933: Seminar

EVR 6934: Internship

EVR 6979: Nonthesis Master's Project

EXP 6099: Survey of Cognition and Sensory Processes

EXP 6609: Seminar: Cognition

EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes

FAS 5203C: Biology of Fishes

FAS 5255C: Diseases of Warmwater Fish

FAS 5276C: Field Ecology of Aquatic Organisms

FAS 5335C: Applied Fisheries Statistics

FAS 5901: Scientific Thinking in Ecology

FAS 6154: Aquatic Invertebrate Ecological Physiology

FAS 6171: Applied Phycology

FAS 6256: Fish and Aquatic Invertebrate Histology

FAS 6272: Marine Ecological Processes

FAS 6337C: Fish Population Dynamics

FAS 6339C: Advanced Quantitative Fisheries Assessment

FAS 6355C: Fisheries Management

FAS 6905: Individual Study

FAS 6910: Supervised Research

FAS 6932: Special Topics in Fisheries and Aquatic Sciences

FAS 6933: Graduate Symposium

FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences

FAS 6940: Supervised Teaching

FAS 6971: Research for Master's Thesis

FAS 7979: Advanced Research

FAS 7980: Research for Doctoral Dissertation

FES 6705: Communications in Emergency Management

FES 6724: Fire and Emergency Services Response Planning

FES 6726: Hazard Mitigation and Preparedness

FES 6735: International Emergency/Disaster Management

FES 6736: Homeland Security and Emergency Management

FES 6786: Research Methods in FES

FES 6806: Disaster Response and Recovery

FES 6826: Emergency Services - Disaster Planning

FES 6827: Business Continuity and Disaster Planning

FES 6836: Impacts of Natural and Man-made Disasters on Buildings

FES 6916: Research for Master's Report

FES 6940: Practicum in FES

FIL 6061: History of Documentary Film I

FIL 6062: History of Documentary Film II

FIL 6101: Advanced Radio, Television, and Film Writing

FIL 6315: Writing for Documentary I

FIL 6317: Producing and Writing the Documentary

FIL 6335: Business of Documentary

FIL 6340: Issues and Problems in Documentary

FIL 6365: Documentary Pre-Production Planning

FIL 6366: Documentary Procedures II

FIL 6377: Documentary Field Production

FIL 6378: Documentary Research Methods

FIL 6380: Advanced Post-Production Techniques

FIN 5405: Business Financial Management

FIN 5437: Finance I: Asset Valuation, Risk, and Return

FIN 5439: Finance II: Capital Structure and Risk Management Issues

FIN 6108: Personal Financial Management

FIN 6246: Money and Capital Markets

FIN 6296: Capitalism

FIN 6306: Investment Banking

FIN 6418: International Cash Flow Management

FIN 6425: Corporation Finance

FIN 6427: Measuring and Managing Value

FIN 6429: Financial Decision Making

FIN 6432: Asset Valuation and Corporate Finance

FIN 6434: Private Equity

FIN 6438: Study in Valuation

FIN 6465: Financial Statement Analysis

FIN 6477: Entrepreneurial Finance

FIN 6489: Financial Risk Management

FIN 6496: Mergers & Acquisitions

FIN 6518: Investment Concepts

FIN 6525: Asset Management Project

FIN 6526: Portfolio Theory

FIN 6528: Asset Allocation and Investment Strategy

FIN 6537: Derivative Securities

FIN 6545: Fixed Income Security Valuation

FIN 6547: Interest Rate Risk Management

FIN 6549: Special Topics in Fixed Income Securities

FIN 6575: Emerging Markets Finance I

FIN 6576: Emerging Markets Finance II

FIN 6585: Securities Trading

FIN 6595: Investment Analytics

FIN 6596: Introduction to Computational Methods & Derivative Pricing

FIN 6608: Financial Management of the Multinational Corporation

FIN 6626: International Finance

FIN 6638: International Finance

FIN 6643: Project Analysis in a Global Environment

FIN 6727: Economic Organizations and Markets

FIN 6728: Capitalism and Regulation

FIN 6729: Economics Organizations and Markets

FIN 6785: Investment Banking and Corporate Financial Modeling I

FIN 6786: Investment Banking and Corporate Financial Modeling II

FIN 6905: Individual Work in Finance

FIN 6930: Special Topics in Finance

FIN 6935: Finance Professional Speaker Series

FIN 6936: Special Topics In Investment Finance

FIN 6940: Supervised Teaching

FIN 6957: International Studies in Finance

FIN 6958: International Finance Study Tour

FIN 6971: Research for Master's Thesis

FIN 7446: Financial Theory I

FIN 7447: Financial Theory II

FIN 7808: Corporate Finance

FIN 7809: Investments

FIN 7848: Marketing Microstructure

FIN 7938: Finance Research Workshop

FIN 7979: Advanced Research

FIN 7980: Research for Doctoral Dissertation

FLE 6165: Bilingual-Bicultural Education

FLE 6167: Cross-Cultural Communication for Teachers

FLE 6336: Teaching Foreign Languages in Elementary Schools

FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School

FLE 6385: Foreign Languages Teaching Methods

FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level

FNR 5072C: Environmental Education Program Development

FNR 5335: Agroforestry

FNR 5462: Spatial Models and Decision Analysis

FNR 5608: Research Planning

FNR 6564: Ecohydrology

FOL 6326: Technology in Foreign Language Education

FOL 6943: Romance Language Teaching Methods

FOR 5157: Ecosystem Restoration Principles and Practice

FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems

FOR 5161: Forest Productivity and Health

FOR 5435: Forest Information Systems

FOR 5615: Forest Conservation and Management Policies and Issues

FOR 5625: Forest Water Resources Management

FOR 5756: Non-Timber Forest Products

FOR 6005: Conservation Behavior

FOR 6154: Analysis of Forest Ecosystems

FOR 6156: Simulation Analysis of Forest Ecosystems

FOR 6164: Silviculture: Concepts and Application

FOR 6170: Tropical Forestry

FOR 6172C: Tropical Forestry Field Course

FOR 6215: Fire Paradigms

FOR 6310: Forest Genetics and Tree Improvement

FOR 6340: Physiology of Forest Trees

FOR 6345C: Plant Water Relations Techniques

FOR 6543: Natural Resource Economics and Valuation

FOR 6628: Community Forest Management

FOR 6665: Landscape Planning for Ecotourism

FOR 6905: Research Problems in Forest Resources and Conservation

FOR 6910: Supervised Research

FOR 6933: Seminar

FOR 6934: Topics in Forest Resources and Conservation

FOR 6940: Supervised Teaching

FOR 6971: Research for Master's Thesis

FOR 7979: Advanced Research

FOR 7980: Research for Doctoral Dissertation

FOS 5126C: Psychophysical Aspects of Foods

FOS 5205: Current Issues in Food Safety and Sanitation

FOS 5225C: Principles in Food Microbiology

FOS 5437C: Food Product Development

FOS 5561C: Citrus Processing Technology

FOS 5645: Functional Foods and Nutraceuticals

FOS 5732: Current Issues in Food Regulations

FOS 6125C: Sensory Evaluation of Food

FOS 6215: Principles of Food Safety

FOS 6216: Food Safety Systems

FOS 6217: Food Safety, Sanitation, and Microbiology

FOS 6226C: Advanced Food Microbiology

FOS 6315C: Advanced Food Chemistry

FOS 6317C: Flavor Chemistry and Technology

FOS 6355C: Instrumental Analysis and Separations

FOS 6428C: Advanced Food Processing

FOS 6455C: Industrial Food Fermentations

FOS 6736: Food Regulations

FOS 6905: Problems in Food Science

FOS 6910: Supervised Research

FOS 6915: Research Planning

FOS 6936: Topics in Food Science

FOS 6938: Food Science Seminar

FOS 6940: Supervised Teaching

FOS 6971: Research for Master's Thesis

FOS 7979: Advanced Research

FOS 7980: Research for Doctoral Dissertation

FOT 6940: Translation Studies Practicum

FOW 6930: Special Study in Romance Languages and Literatures

FRE 6060: Beginning French for Graduate Students I

FRE 6061: Beginning French for Graduate Students II

FRE 6466: Advanced Translation and Stylistics

FRE 6735: Special Studies in French Linguistics

FRE 6736: The French language in the Americas

FRE 6785: French Phonetics and Phonology

FRE 6827: Sociolinguistics of French

FRE 6845: History of the French Language

FRE 6855: Structure of French

FRE 6856: French in the 21st Century

FRE 6940: Supervised Teaching

FRE 6943: Romance Language Teaching Methods

FRE 6945: Practicum in Advanced College Teaching

FRE 6956: Overseas Studies in French

FRW 6217: Seventeenth-Century French Prose

FRW 6276: Readings in Eighteenth-Century Literature

FRW 6288: Twentieth-Century French Novel

FRW 6315: Seventeenth-Century French Drama

FRW 6328: Twentieth-Century French Theater

FRW 6346: French Poetry of the Renaissance

FRW 6355: Modern French Poetry

FRW 6396: French Cinema

FRW 6416: Later French Medieval Literature

FRW 6536: The Romantic Period

FRW 6556: French Realism and Naturalism

FRW 6715: The Philosophic Movement

FRW 6780: Studies in Francophone Literature and Culture (Excluding the Caribbean and Sub-Saharan Africa)

FRW 6805: Introduction to Graduate Study and Research

FRW 6825: French Critical Theory

FRW 6900: Special Study in French Literature

FRW 6905: Individual Work

FRW 6910: Supervised Research

FRW 6938: Seminar in French Literature

FRW 6971: Research for Master's Thesis

FRW 7979: Advanced Research

FRW 7980: Research for Doctoral Dissertation

FYC 5008: Personal and Family Tax Planning

FYC 5009: Personal and Family Insurance Planning

FYC 5106: Personal and Family Retirement and Estate Planning

FYC 5935: Personal and Family Financial Planning Capstone

FYC 6020: Principles of Family, Youth, and Community Sciences

FYC 6111: Families and Violence

FYC 6117: Military Families in Community Context

FYC 6131: Ethics for FYCS Practitioners

FYC 6207: Adolescent Problematic Behavior

FYC 6221: Grant Proposals for Community-Based Organizations

FYC 6222: Parenting and Child Relationships

FYC 6223: Promoting Positive Youth Development

FYC 6224: Resilience and Positive Youth Development

FYC 6230: Theories of Youth and Family Development

FYC 6234: Theoretical Approaches to Youth Programming

FYC 6302: Sustainable Community Development

FYC 6320: Community Development and Civic Engagement

FYC 6330: Theories of Community Development

FYC 6331: Involving Youths in Community Issues

FYC 6412: Historical Foundations of Philanthropy

FYC 6421: Nonprofit Organizations

FYC 6422: Policy Issues and Case Studies in Nonprofit Organizations

FYC 6423: Non-Governmental Organizations

FYC 6424: Fund Raising for Community Nonprofit Organizations

FYC 6425: Risk Management in Nonprofit Organizations

FYC 6620: Program Planning and Evaluation for Human Service Delivery

FYC 6662: Public Policy and Human Resource Development

FYC 6800: Scientific Reasoning and Research Design

FYC 6802: Advanced Research Methods for Family, Youth, and Community Sciences

FYC 6901: Problems in Family, Youth, and Community Sciences

FYC 6912: Nonthesis Project in Family, Youth, and Community Sciences

FYC 6932: Topics, in Family, Youth, and Community Sciences

FYC 6933: Seminar in Human Resource Development

FYC 6934: Professional Internship/Practicum in Family, Youth, and Community Sciences

FYC 6971: Research for Master's Thesis

GEA 6419: Seminar: South America

GEA 6466: Seminar on Geography of Amazonia

GEA 6468: Resource Utilization and Conservation in Latin America

GEB 5114: Entrepreneurship and Venture Finance

GEB 5118: New Venture Creation

GEB 5212: Professional Writing in Business

GEB 5215: Professional Communication in Business

GEB 5217: Executive Communication

GEB 5225: Advanced Business Writing

GEB 5929: Foundations Review

GEB 6157: Entrepreneurship Experiential Learning Project

GEB 6229: Professional Communication for Accountants

GEB 6365: International Business

GEB 6366: Fundamentals of International Business

GEB 6368: Globalization and the Business Environment

GEB 6905: Individual Work

GEB 6924: Entrepreneurship Professional Speaker Series

GEB 6928: Professional Development Module IV

GEB 6930: Special Topics

GEB 6941: Internship

GEB 6957: International Studies in Business

GEO 5305: Environmental Biogeography

GEO 5346: Natural Hazards

GEO 5556: Geography of Innovation and Technological Change

GEO 5605: Advanced Urban Geography

GEO 5809: Geography of World Agriculture

GEO 5905: Individual Study: Directed Reading

GEO 5920: Geography Colloquium

GEO 5945C: Field Course in Geography

GEO 6118: Contemporary Geographic Thought and Research

GEO 6119: Proposal Writing in Geography

GEO 6160: Introduction to Quantitative Methods for Geographers

GEO 6161: Intermediate Quantitative Methods for Geographers

GEO 6166: Advanced Quantitative Methods for Spatial Analysis

GEO 6255: Climatology

GEO 6282: Fluvial Morphology

GEO 6348: Floods Seminar

GEO 6375: Land Change Science Seminar

GEO 6429: Seminar: Cultural Geography

GEO 6435: Seminar in Population

GEO 6451: Medical Geography

GEO 6495: Environment and Behavior

GEO 6905: Individual Work

GEO 6921: How to Survive and Thrive in Academia

GEO 6931: Seminar in Cultural and Political Ecology

GEO 6938: Selected Topics in Geography

GEO 6971: Research for Master's Thesis

GEO 7979: Advanced Research

GEO 7980: Research for Doctoral Dissertation

GER 6060: Beginning German for Graduate Students I

GER 6061: Beginning German for Graduate Students II

GER 6505: German Culture

GER 6940: Supervised Teaching

GET 6295: Weimar Cinema

GET 6299: New German Cinema and its Legacy

GEW 6205: Foundations of Literary Study

GEW 6266: History of the German Novel

GEW 6305: Studies in German Drama and Theater

GEW 6405: Medieval and Renaissance Literature

GEW 6425: From Luther to Lessing: Early Modern German Literature

GEW 6535: German Classical and Romantic Literature

GEW 6558: Young Germany, Biedermeier, Realism, and Naturalism

GEW 6725: Culture and Society in the Weimar Republic

GEW 6735: Modern German Literature

GEW 6736: Contemporary German Literature

GEW 6745: Literature and Culture in the Third Reich

GEW 6826: German Literary Theory

GEW 6900: Seminar in Germanic Languages and Literatures

GEW 6901: Special Study in Germanic Languages and Literatures

GEW 6905: Independent Study

GEW 6910: Supervised Research

GEW 6971: Research for Master's Thesis

GEW 7979: Advanced Research

GEW 7980: Research for Doctoral Dissertation

GEY 5935: Topics in Gerontology

GEY 6220: Overview of Geriatric Care Management

GEY 6306: Interpersonal Communication Within the Aging Network

GEY 6341: Shelter and Care Options for U.S. Elderly

GEY 6646: Issues and Concepts in Gerontology

GEY 6905: Independent Study in Gerontology

GEY 6936: Professional Development in Gerontology/Geriatrics

GEY 7408: Psychotherapy with Older Adults

GIS 5008C: Maps and Graphs

GIS 5009C: Advanced Cartography

GIS 5028C: Advanced Aerial Photo Interpretation

GIS 5038C: Remote Sensing

GIS 5107C: Geographic Information Systems in Research

GIS 5306: Geographic Information Systems Applications in Environmental Systems

GIS 5540: Business Geography and New Real Estate Market Analysis

GIS 6103: GIS Programming and Customization

GIS 6104: Spatial Networks

GIS 6116: Geographic Information Systems Analysis

GIS 6425C: GIS Models for Public Health

GLY 5156: Geologic Evolution of North America

GLY 5245: Hydrogeochemistry

GLY 5246: Geochemistry

GLY 5247: Surface and Ground Water Interactions

GLY 5248: Physical Geochemistry

GLY 5255: Organic Geochemistry and Geobiology

GLY 5328: Advanced Igneous Petrology

GLY 5455: Introduction to Geophysics and Tectonics

GLY 5466: Seismology and Earth Structure

GLY 5468: Terrestrial Gravity and Magnetism

GLY 5476: Environmental Geophysics

GLY 5558C: Sedimentology

GLY 5576: Continental Margin Stratigraphy

GLY 5705: Geomorphology

GLY 5736: Marine Geology

GLY 5786L: Topics in Field Geology

GLY 5827: Ground Water Geology

GLY 6075: Global Climate Change: Past, Present, and Future

GLY 6268C: Isotope Geology

GLY 6297: Topics in Geochemistry

GLY 6425: Tectonics

GLY 6519: Stratigraphy and Timescales

GLY 6620C: Micropaleontology

GLY 6695: Topics in Paleoclimatology

GLY 6826: Hydrogeologic Modeling

GLY 6862: Numerical Methods in Earth Sciences

GLY 6905: Individual Work

GLY 6931: Seminar

GLY 6932: Special Topics in Geology

GLY 6940: Supervised Teaching

GLY 6943: Internship in College Teaching

GLY 6971: Research for Master's Thesis

GLY 7979: Advanced Research

GLY 7980: Research for Doctoral Dissertation

GMS 5604: Medical Human Embryology

GMS 5605: Medical Anatomy

GMS 5606L: Medical Anatomy Lab

GMS 5613: Medical Human Anatomy by Diagnostic Imaging

GMS 5630: Medical Histology

GMS 5905: Special Topics in Biomedical Sciences

GMS 6001: Fundamentals of Biomedical Sciences I

GMS 6003: Fundamentals of Graduate Research and Professional Development

GMS 6004: IDP Practical Laboratory

GMS 6005: Fundamentals of Developmental Biology

GMS 6006: Fundamentals of Immunology and Microbiology

GMS 6007: Fundamentals of Neuroscience

GMS 6008: Fundamentals of Physiology and Functional Genomics

GMS 6009: Principles of Drug Action

GMS 6010: Yeast Genetics

GMS 6011: Mouse Genetics

GMS 6012: Human Genetics

GMS 6013: Developmental Genetics

GMS 6014: Applications of Bioinformatics to Genetics

GMS 6015: Human Genetics II

GMS 6017C: In-Vitro Fertilization Laboratory Practicum A

GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum

GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System

GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience

GMS 6023: Principles of Neuroscience III – Molecular Neuropharmacology and its Clinical Application

GMS 6024: Principles of Neuroscience IV: Neural Integration & Control

GMS 6029: Brain Journal Club

GMS 6031: Molecular Immunology

GMS 6032: Mechanisms of Host Defense

GMS 6033: Immunity in Health and Disease

GMS 6034: Advanced Virology I: Genetics and RNA

GMS 6035: Advanced Virology II: RNA Viruses

GMS 6036: Molecular Virology III: DNA Viruses

GMS 6038: Bacterial Genetics and Physiology

GMS 6039: Bacterial Pathogenesis

GMS 6040: Host-Pathogen Interactions

GMS 6051: Signal Transduction

GMS 6052: Ion Channels of Excitable Membranes

GMS 6053: Cancer Biology and Therapeutics

GMS 6059: Gene Therapy from Bench to Bedside

GMS 6061: Nuclear Structure and Dynamics

GMS 6062: Protein Trafficking

GMS 6063: Mechanisms of Aging

GMS 6064: Tumor Biology

GMS 6065: Fundamentals of Cancer Biology

GMS 6070: Sensory and Motor Systems

GMS 6072: Neuroendocrinology and Neuroimmunology

GMS 6073: Developmental Neurobiology

GMS 6074: Comparative and Evolutionary Neurobiology

GMS 6077: Neural Degeneration and Regeneration

GMS 6078: Synaptic Function and Plasticity

GMS 6079: Computers in Biology

GMS 6080: Basic Magnetic Resonance Imaging

GMS 6081: Biological Imaging Techniques

GMS 6090: Research in Medical Sciences

GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences

GMS 6099: Foundations in Aging and Geriatric Research

GMS 6121: Infectious Diseases

GMS 6140: Principles of Immunology

GMS 6145: Immunology of Gene Transfer

GMS 6151: Genetic Analysis Using Model Systems

GMS 6153: Advanced Bacterial Genetics

GMS 6155: DNA Microarray Data Analysis

GMS 6160: Introduction to Oral Biology I

GMS 6161: Introduction to Oral Biology II

GMS 6169: Antimicrobial Strategies

GMS 6173: Stomatognathic System: Form and Function

GMS 6176: Biology of Tooth Supporting Structures I

GMS 6177: Biology of Tooth Supporting Structures II

GMS 6181: Special Topics in Microbiology

GMS 6190: Seminar

GMS 6191: HIV Journal Club

GMS 6193: Research Conference in Oral Biology

GMS 6195: Epigenetics Journal Club

GMS 6196: Virology Journal Club

GMS 6198: Bacterial Pathogenesis Journal Club

GMS 6221: Ethics in Genetics

GMS 6223: Drosophila Neurogenetics: from Development to Function

GMS 6231: Genomics and Bioinformatics

GMS 6232: Advanced Applications of Bioinformatics in Genetics

GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics

GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens

GMS 6251: Molecular Therapy I – Vectors and Molecular Mechanisms

GMS 6252: Molecular Therapy II – Disease Targets and Applications

GMS 6253: Molecular Therapy III – Immunology of Gene Transfer

GMS 6290: Genetics/Genomics Program Graduate Seminar

GMS 6312: Clinical Chemistry and Toxicology

GMS 6313: Clinical Chemistry and Toxicology: A Rotation

GMS 6331: Stem Cell Biology

GMS 6335: Advanced Stem Cell Biology: Tissue Engineering

GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine

GMS 6337: B Cell Development in Health and Disease

GMS 6338: Recent Advances in Cancer Metastasis

GMS 6381: Special Topics in Pathology

GMS 6382: Special Topics in Immunology

GMS 6383: Current Topics in Immunotherapy

GMS 6393: Seminar in Clinical Chemistry

GMS 6394: Seminar in Mammalian Genetics

GMS 6400C: Principles of Physiology

GMS 6403: Advanced Endocrinology

GMS 6405: Fundamentals of Endocrine Physiology

GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology

GMS 6408: Fundamentals of Renal Physiology

GMS 6410: Physiology of the Circulation of Blood

GMS 6411: Fundamentals of Cardiovascular Physiology

GMS 6412: Human Physiology for Biomedical Engineering

GMS 6413: Advances in Hypertension Research

GMS 6414: Advanced Renal Physiology

GMS 6415: Fundamentals of Gastrointestinal Physiology

GMS 6416: Human Endocrinology and Anatomy of Reproduction

GMS 6417: Integrative Aging Physiology

GMS 6421: Cell Biology

GMS 6471: Fundamentals of Physiology and Functional Genomics I

GMS 6472: Fundamentals of Physiology and Functional Genomics II

GMS 6473: Fundamentals of Physiology and Functional Genomics III

GMS 6483: Theories of Aging

GMS 6484: Geriatric and Age Related Diseases

GMS 6485: Population Based Research on Aging

GMS 6486: Fundamentals of Biological Aging

GMS 6490C: Research Methods in Physiology

GMS 6491: Journal Club in Physiology

GMS 6495: Seminar in Physiology

GMS 6496: Recent Advances in Physiology

GMS 6497: Seminar on Vision

GMS 6500: Introduction to Pharmacology

GMS 6506: Biologic Drug Development

GMS 6563: Molecular Pharmacology

GMS 6590: Seminar in Pharmacology

GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes

GMS 6607C: Musculoskeletal Systems

GMS 6609: Advanced Gross Anatomy

GMS 6621: Vision

GMS 6622: Mitochondrial Biology in Aging and Disease

GMS 6635: Organization of Cells and Tissues

GMS 6642: Morphogenesis: Organ Systems I

GMS 6643: Morphogenesis: Organ Systems II

GMS 6644: Apoptosis

GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation

GMS 6683: Fundamentals of Vascular Physiology and Pathology

GMS 6690: Molecular Cell Biology Journal Club

GMS 6691: Special Topics in Cell Biology and Anatomy

GMS 6692: Research Conference in Anatomy and Cell Biology

GMS 6705: Functional Human Neuroanatomy

GMS 6709: Current Topics in Vision

GMS 6711: Neurobiology of Pain

GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes

GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects

GMS 6719: Fundamentals of Computational Neuroscience

GMS 6735: Neuropharmacology

GMS 6750: Molecular Pathobiology of Neural Disease

GMS 6760: Comparative Biology of Cell Signaling

GMS 6771: Clinical Neuroscience of Aging

GMS 6780: Addiction: Neuroscience and Trends

GMS 6791: Visual Neuroscience Journal Club

GMS 6792: Neuroscience Graduate Research Seminar

GMS 6800: Fundamentals of Epidemiology

GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases

GMS 6802: Examining Health Outcomes for Chronic Diseases in Clinical and Community-based Research

GMS 6803: Data Management for Clinical Research

GMS 6804: Medical Informatics

GMS 6810: Intermediate Epidemiology Methods

GMS 6811: Grant Writing Skills for Clinical Research

GMS 6812: Cancer Health Outcomes Assessment

GMS 6813: Clinical Trials

GMS 6814: Molecular and Genetic Epidemiology

GMS 6816: Pediatric Child Health Outcomes Assessment for Clinical and Community-Based Research

GMS 6818: Design and Conduct Clinical Trials I

GMS 6819: Design and Conduct Clinical Trials II

GMS 6820: Advanced Epidemiology Methods

GMS 6821: Measuring and Analyzing Health Outcomes I

GMS 6822: Measuring and Analyzing Health Outcomes II

GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1

GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2

GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3

GMS 6826: Advanced Design and Methodology for Case-Control Studies in Clinical Research

GMS 6827: Advanced Clinical Trial Methods

GMS 6829: Longitudinal Research Design

GMS 6830: Health Outcomes Research and Policy Development

GMS 6832: Economic Methods for Evaluating Value in Health

GMS 6833: Health Care Policy and Vulnerable Populations

GMS 6834: Health Policy and Formulation of Payment Mechanisms for Health Care

GMS 6835: Health Policy Issues in Children's Health

GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences

GMS 6842: Translational Research Methods

GMS 6844: Experimental and Quasi-Experimental Research Designs for Community Settings

GMS 6845: Clinical & Translational Research Practicum

GMS 6846: Meta-Analysis in Clinical, Health Services Research and Public Health

GMS 6851: Health Outcomes Research

GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies

GMS 6853: Applied Topics in Dissemination and Implementation Science

GMS 6854: Applied Topics in Clinical Effectiveness Research

GMS 6861: Applied Biostatistics I

GMS 6862: Applied Biostatistics II

GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data

GMS 6872: Science and Ethics of in Vitro Fertilization

GMS 6876: Law & Ethics of Aging

GMS 6881: Special Studies in Epidemiology and Health Policy Research

GMS 6882: Directed Readings in Epidemiology and Health Policy

GMS 6883: Practicum Experience in Epidemiology and Health Policy

GMS 6884: Research in Epidemiology and Health Policy

GMS 6885: Research Designs in Health Outcomes and Policy

GMS 6893: Clinical and Translational Science Seminar Series

GMS 6895: CTS Journal Club

GMS 6896: Health Outcomes and Policy Seminar

GMS 6901: Seminar in Biology of Disease

GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists

GMS 6905: Independent Studies in Medical Sciences

GMS 6910: Supervised Research

GMS 6920: Genetics Journal Colloquy

GMS 6921: Immunology/Microbiology Journal Colloquy

GMS 6931: Ethical and Policy Issues in Clinical Research

GMS 6940: Supervised Teaching

GMS 6943: Master's Translational Biotechnology Internship

GMS 6970: Individual Study

GMS 6971: Research for Master's Thesis

GMS 7001: Fundamentals of Biomedical Science Education

GMS 7002: Practicum in Biomedical Science Education

GMS 7003: Responsible Conduct of Biomedical Research

GMS 7093: Introduction to Clinical and Translational Research

GMS 7179: Journal Colloquy

GMS 7191: Research Conference

GMS 7192: Journal Colloquy

GMS 7194: Biotechnology Seminar

GMS 7593: Topics in Pharmacology and Toxicology

GMS 7794: Neuroscience Seminar

GMS 7795: Special Topics in Neuroscience

GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research

GMS 7887: Health Outcomes & Policy PhD Research Seminar

GMS 7979: Advanced Research

GMS 7980: Research for Doctoral Dissertation

GRE 6425: Greek Prose Composition

GRE 6755: Epigraphy

GRK 6905: Individual Work in Modern Greek

GRW 6105: The Greek Tradition

GRW 6216: Greek Novel

GRW 6316: Greek Tragedy

GRW 6317: Ancient Greek Comedy

GRW 6345: Greek Lyric Poetry

GRW 6346: Pindar

GRW 6347: Homer

GRW 6386: Greek Historians

GRW 6506: Plato

GRW 6705: Attic Orators

GRW 6905: Individual Work

GRW 6930: Special Topics in Greek Literature

GRW 6931: Comparative Study of Greek and Latin Literature

GRW 6971: Research for Master's Thesis

GRW 7979: Advanced Research

GRW 7980: Research for Doctoral Dissertation

HIS 5450: Slavery in the New World: Comparative Perspectives

HIS 5484: Science and the Enlightenment

HIS 5485: Special Studies in the History of Science

HIS 6060: Historical Method

HIS 6061: Introduction to Historiography

HIS 6416: Problems in Comparative Legal History

HIS 6445: Postcolonial Theories

HIS 6469: Topics in Historiography of History of Science

HIS 6478: Topics in the Scientific Revolution

HIS 6480: Pre-Newtonian Sciences

HIS 6488: Readings in the History of Science

HIS 6905: Individual Study

HIS 6910: Supervised Research

HIS 6940: Supervised Teaching

HIS 6943: Internship in College Teaching

HIS 6957: Nonthesis Project in History

HIS 6971: Research for Master's Thesis

HIS 7979: Advanced Research

HIS 7980: Research for Doctoral Dissertation

HLP 6515: Evaluation Procedures in Health and Human Performance

HLP 6535: Research Methods in Health and Human Performance

HLP 6911: Research Seminar

HLP 6935: Variable International Topics

HLP 7979: Advanced Research in Health and Human Performance

HLP 7980: Research for Doctoral Dissertation

HMG 6076: Introduction to Hospitality and Tourism

HMG 6608: Hospitality Law and Risk Management

HMG 6747: Marketing in Hospitality/Tourism

HOS 5085C: Principles of Postharvest Horticulture

HOS 5115C: Horticultural Plant Morphology and Identification

HOS 5242: Genetics & Breeding of Vegetable Crops

HOS 5306: Molecular Biology of Plant Hormones

HOS 5330: Postharvest Technologies for Horticultural Crops

HOS 5432: Advanced Nutritional Management of Ornamental Crops

HOS 5515C: Greenhouse and Nursery Operations

HOS 5516C: Advanced Production of Greenhouse and Nursery Crops

HOS 5555: Tropical Fruit Production and Research in Florida

HOS 5711: Phytochemicals in Food & Health

HOS 6201: Breeding Perennial Cultivars

HOS 6236: Molecular Marker Assisted Plant Breeding

HOS 6331: Postharvest Biology

HOS 6345: Environmental Physiology

HOS 6412: Nutrition of Horticultural Crops

HOS 6523: Research and Development in Turfgrass Science

HOS 6545: Advanced Citriculture I

HOS 6546: Advanced Citriculture II

HOS 6905: Problems in Horticultural Science

HOS 6910: Supervised Research

HOS 6931: Horticultural Science Seminar

HOS 6932: Special Topics

HOS 6934: Professional Seminar Preparation

HOS 6940: Supervised Teaching

HOS 6941: Practicum in Horticultural Science

HOS 6971: Research for Master's Thesis

HOS 7979: Advanced Research

HOS 7980: Research for Doctoral Dissertation

HSA 5103: Introduction to the U.S. Health Care System

HSA 5174: Fundamentals of Health Care Finance

HSA 6105: Professional Skills Seminar

HSA 6114: U.S. Health Care System

HSA 6115: Introduction to Management of Health Services Organizations

HSA 6126: U.S. Health Insurance System

HSA 6152: Overview of U.S. Health Policy

HSA 6175: Health Care Financial Management

HSA 6177: Advanced Health Care Finance

HSA 6179: Introduction to Health Care Finance

HSA 6188: Strategic Management in Health Administration

HSA 6196: Health Services Operations Management

HSA 6197: Information Management in Health Administration

HSA 6198: Information Management in Health Administration

HSA 6342: Human Resource Management for Health Services Managers

HSA 6385: Performance Management for Health Care Managers

HSA 6427: Legal and Ethical Issues in Health Administration

HSA 6436: Health Economics

HSA 6855: Internship in Health Administration

HSA 6858: Internship in Health Services Research

HSA 6878: Externship in Legal Aspects of Health Services Administration

HSA 6905: Individual Study in Health Administration

HSA 6910: Supervised Research

HSA 6911: Research Seminar in Health Services Research

HSA 6930: Special Topics in Health Services Administration

HSA 6935: Seminar in Health Administration

HSA 6939: Capstone Seminar in Health Administration

HSA 6940: Supervised Teaching

HSA 6946: Internship in Public Health Management and Policy

HSA 7106: Seminar in Health Care Access and Utilization

HSA 7116: Health Services Organizational Research

HSA 7157: Research Foundations of Health Policy

HSA 7414: Society, Health, and Medical Care

HSA 7437: Advanced Health Economics

HSA 7707: Health Services Research Methods I

HSA 7708: Health Services Research Methods II

HSA 7759: Quality and Outcomes in Health Services Research

HSA 7905: Advanced Individual Study in Health Services Research

HSA 7936: Seminar in Health Care Costs and Financing

HSA 7938: Advanced Seminar in Health Services Research

HSA 7979: Advanced Research

HSA 7980: Research for Doctoral Dissertation

HSC 5135: Emotional Health Education

HSC 5138: Human Sexuality

HSC 5142: Drug Education

HSC 5315C: Teaching Health in Elementary Schools

HSC 5536C: Medical Terminology for the Health Professions

HSC 5576: Nutrition Education for Special Populations

HSC 5606: Spirituality and Health

HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health

HSC 5626: Minority Health Issues

HSC 5657: Health and End-of-Life Issues

HSC 5925: Seminar in Health Education

HSC 5938: Special Topics

HSC 5956: Writing for Professional Publications

HSC 6037: Philosophy and Principles of Health Education

HSC 6216: Environmental Health

HSC 6235: Patient Health Education

HSC 6318: Planning Health Education Programs

HSC 6506: Epidemiology

HSC 6567: Health Promotion and Programming in Gerontology

HSC 6571: Contemporary Issues in Health Promotion

HSC 6575: Women's Health Issues

HSC 6595: HIV/AIDS Education

HSC 6603: Theories of Health Behavior and Practice in Health Education

HSC 6605: Scientific Foundations of Holistic Health

HSC 6625: Trends in International Health

HSC 6629: Health Promotion for Priority Populations

HSC 6637: Social Marketing and Health

HSC 6646: Community Health Methods in Injury Prevention & Control

HSC 6665: Health Communication

HSC 6667: Health Communication Programs

HSC 6668: Interpersonal Communication and Health

HSC 6695: Worksite Health Promotion

HSC 6712: Evaluating Health Education Programs

HSC 6735: Research Methods in Health Education

HSC 6850: Internship in Health Education

HSC 6904: Readings in Health Education

HSC 6905: Independent Study

HSC 6910: Supervised Research

HSC 6935: Current Topics in Health Education

HSC 6939: Special Topics

HSC 6940: Supervised Teaching

HSC 6971: Research for Master's Thesis

HSC 6973: Project in Lieu of Thesis

HSC 7904: Advanced Readings in Health Education

HSC 7905: Advanced Independent Study in Health Education

HSC 7937: Advanced Seminar in Health Education

HUM 5357: Creativity and Health: Foundations of the Arts in Medicine

HUM 5595: Arts in Medicine in Practice

HUM 6340: Arts Advocacy and Public Policy

HUM 6353: Arts in Medicine Professional Seminar

HUM 6354: Arts in Medicine Advanced Professional Seminar

HUM 6358: Arts in Medicine Capstone Proposal

HUM 6359: Arts in Medicine Capstone

HUM 6930: Special Topics in Fine Arts

HUM 6942: Arts in Medicine Graduate Practicum

HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

HUN 5246: Current Issues in Dietary Supplements

HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition

HUN 5447: Nutrition and Immunity

HUN 6245: Advanced Human Nutrition

HUN 6255: Clinical Nutrition

HUN 6301: Nutritional Aspects of Lipid Metabolism

HUN 6305: Nutritional Aspects of Carbohydrates

HUN 6321: Proteins and Amino Acids in Nutrition

HUN 6331: Vitamins in Human Nutrition

HUN 6356: Minerals in Nutrition

HUN 6812C: Analytical Techniques in Nutritional Biochemistry

HUN 6905: Problems in Nutritional Sciences

HUN 6910: Supervised Research

HUN 6936: Topics in Nutritional Sciences

HUN 6938: Nutritional Sciences Seminar

HUN 6939: Advanced Clinical Nutrition

HUN 6940: Supervised Teaching

HUN 6971: Research for Master's Thesis

HUN 7979: Advanced Research

HUN 7980: Research for Doctoral Dissertation

ICM 5905: Special Studies

ICM 6420: Commercial Management and Cost Control

ICM 6440: Construction Value Management

ICM 6680: Principles of International Sustainable Construction

ICM 6682: Construction Ecology and Metabolism

ICM 6684: High-Performance Green Building Delivery Systems

ICM 6710: Construction Human Resource Management

ICM 6750: Managing Construction Information Technology

ICM 6751: International Construction Management

ICM 6752: Construction Finance and Investment

ICM 6761: Advanced Planning, Scheduling, and Logistics

ICM 6762: Construction Risk Management

ICM 6770: Advanced Project Safety Management

ICM 6772: International Strategic Management

ICM 6905: Directed Independent Study in International Construction

ICM 6910: Supervised Research

ICM 6930: Construction Communication and Research

ICM 6934: International Construction Research

IDC 6505C: Programming for Artists

IND 5023: Introduction to Architectural Interiors

IND 5106: History of Interior Design I

IND 5136: History of Interior Design II

IND 5212C: Architectural Interiors I

IND 5213C: Introduction to Architectural Interiors Lab

IND 5227C: Advanced Architectural Interiors I

IND 5231C: Architectural Interiors II

IND 5232C: Advanced Architectural Interiors II

IND 5317C: Interior Design Communication Systems

IND 5326: Color Theory Planning and Practice

IND 5427C: Interior Design Construction Documents

IND 5428: Materials for Interior Design

IND 5434C: Interior Lighting

IND 5445C: Furniture Design

IND 5454C: Advanced Interior Design Detailing and Construction Documents

IND 5464C: Computer Applications in Three-Dimensional Design

IND 5466: Interior Environmental Technology

IND 5508: Business and Professional Practices for Interior Designers

IND 5638: Design Environments and Human Interaction

IND 5937: Current Topics in Interior Design

IND 6239: Advanced Topics in Interior Design Studio

IND 6639: Methods of Interior Design Research

IND 6906: Independent Studies and Readings

IND 6940: Supervised Teaching

IND 6941: Interior Design Internship

IND 6971: Research for Master's Thesis

INR 5935: Advanced Topics in International Relations

INR 6036: Globalization, Regionalism, and Governance

INR 6039: International Political Economy

INR 6208: Advanced International Relations Theory

INR 6213: Seminar: Politics of the European Union

INR 6249: Inter-American Relations

INR 6305: Politics of American Foreign Policy Making

INR 6337: Survey of International Security

INR 6352: International Environmental Relations

INR 6507: International Organization

INR 6607: International Relations Theory

INR 6936: Seminar in Transnational and Global Studies

INR 6938: Seminar in Culture and World Politics

IPM 5305: Principles of Pesticides

ISM 5021: Information Systems in Organizations

ISM 6022: Management Information Systems

ISM 6123: Systems Analysis and Design

ISM 6128: Advanced Business Systems Design and Development I

ISM 6129: Advanced Business Systems Design and Development II

ISM 6215: Business Database Systems I

ISM 6216: Business Database Systems II

ISM 6217: Database Management Systems

ISM 6222: Business Telecom Strategy and Applications I

ISM 6223: Business Telecom Strategy and Applications II

ISM 6224: Business Telecom Strategy and Applications III

ISM 6226: Business Telecom Strategy and Applications

ISM 6236: Business Objects I

ISM 6239: Business Objects II

ISM 6257: Intermediate Business Programming

ISM 6258: Advanced Business Programming

ISM 6259: Business Programming

ISM 6405: Business Intelligence

ISM 6423: Data Analysis for Decision Support

ISM 6485: Electronic Commerce and Logistics

ISM 6486: eCommerce Technologies

ISM 6487: Risks and Controls in eCommerce

ISM 6942: Electronic Commerce Practicum

ISM 7166: Advanced Business Systems Design and Development III

JOU 5007: History of Journalism

JOU 5705: Issues and the Press

JOU 6102: Reporting Workshop

JOU 6114: Journalist Bootcamp

JOU 6309: Seminar in Journalism as Literature

JOU 6344: Journalist Toolkit 1

JOU 6349: Journalist Toolkit 2

JOU 6502: Newsroom Management

LAA 5331: Site Design Methodologies

LAA 5366: Principles of Landscape Architecture

LAA 6231: Landscape Architecture Theory

LAA 6322: Project Management for Landscape Architects

LAA 6342: Landscape Architecture Criticism

LAA 6349C: Design Communications for Landscape Architects

LAA 6382: Ecological and Environmental Policy

LAA 6525L: Advanced Landscape Construction Design

LAA 6536: Landscape Management

LAA 6656C: Advanced Landscape Architectural Design

LAA 6713: Cultural Landscapes

LAA 6716: History of Landscape Architecture

LAA 6905: Directed Study

LAA 6931: Water Conservation through Site Design and Green Roofs

LAA 6931C: Special Topics

LAA 6933: Topics in European Design: Paris, France

LAA 6935: Gardens of the World

LAA 6941: Supervised Internship

LAA 6952C: European Landscape Architecture Studio

LAA 6971: Research for Master's Thesis

LAA 6979: Terminal Project

LAE 6298: Literacy & Language Instruction

LAE 6319: Language Arts in the Elementary School

LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts

LAE 6348: Teaching Multiliteracies

LAE 6365: Language Arts: Language and Composition

LAE 6366: Language Arts: Literature

LAE 6407: Early Childhood Children's Literature

LAE 6446: Multicultural Literature for Children and Adolescents

LAE 6447: Immigrant Experiences in Children's and Adolescent Literature

LAE 6455: International Children's Literature

LAE 6505: Applied Preschool Language Disorders: Diagnosis and Treatment

LAE 6616: Seminar in Children's Literature

LAE 6635: Teaching Adolescent Literature in the Secondary School

LAE 6714: Children's Literature in the Childhood Curriculum

LAE 6861: Technology and Media Literacy

LAE 6865: Teaching Media Literacy with the Internet

LAE 6869: Teaching Digital Storytelling

LAE 6939: Literacy, Family, and Culture

LAE 6940: Supervised Teaching

LAE 6945: Practicum and Assessment for Teachers of Secondary School English

LAE 6946: Children's Literature in Educational Settings

LAE 6947: Writing Theories & Practices

LAE 7006: Language Acquisition and Education

LAE 7519: Language and Inquiry

LAE 7715: Research in Children's Literature

LAE 7934: Seminar in Composition Theory and Practice

LAE 7936: Seminar in English Language Arts

LAH 5438: Modern Mexico

LAH 5475: Caribbean, Nineteenth and Twentieth Centuries

LAH 5476: Caribbean History to 1800: Slavery, Colonization, and International Conflict

LAH 5527: Andean Nations

LAH 5607: History of Amazonia

LAH 5637: Brazil Since 1750

LAH 5933: Topics in Caribbean History

LAH 5934: Topics in Latin American History

LAH 6934: Seminar in Colonial Spanish America

LAH 6936: Seminar in History of Brazil

LAH 6938: Seminar in Modern Spanish America

LAS 6008: Ecological Principles

LAS 6220: Issues and Perspectives in Latin American Studies

LAS 6290: Tropical Conservation and Development

LAS 6291: Conservation and Development Skills

LAS 6292: Tropical Conservation and Development Research Methods

LAS 6293: Design and Methods of Research in Latin American Studies

LAS 6295: Latin American Business Environment

LAS 6296: Latin American Business Topics

LAS 6905: Individual Work

LAS 6938: Seminar in Modern Latin American Studies

LAS 6940: Tropical Conservation and Development Practicum

LAS 6943: Development Theory and Practice in Latin America

LAS 6971: Research for Master's Thesis

LAT 6425: Latin Prose Composition

LAW 7493: LL.M. Research: Selected Topics in Environmental & Land Use Law

LAW 7602: Taxation of Property Transactions

LAW 7604: Timing Issues in Taxation

LAW 7611: Corporate Taxation I

LAW 7613: Corporate Taxation II

LAW 7614: U.S. International Tax I

LAW 7615: U.S. International Tax II

LAW 7617: Partnership Taxation

LAW 7623: Taxation of Gratuitous Transfers

LAW 7625: Income Taxation of Trusts and Estates

LAW 7626: Estate Planning

LAW 7632: Deferred Compensation

LAW 7633: Tax Exempt Organizations

LAW 7640: Civil Tax Procedure

LAW 7641: Procedures in Tax Fraud Cases

LAW 7650: State and Local Taxation

LAW 7660: Tax Policy

LAW 7680: Comparative Taxation

LAW 7682: Income Tax Treaties

LAW 7683: Transfer Pricing

LAW 7801: Introduction to the Legal System of the United States for LL.M. in Comparative Law, Part II

LAW 7805: Legal Writing and Research for LL.M. in Comparative Law

LAW 7905: Independent Study

LAW 7906: Directed Research for LL.M. in Comparative Law

LAW 7910: Supervised Research

LAW 7911: Federal Tax Research

LAW 7916: Research Methods and Environmental Land Use Law

LAW 7931: Current Federal Tax Problems

LAW 7932: Introduction to the Legal System of the United States for LLM in Comparative Law, Part I

LEI 5121: Outdoor Recreation and Park Management

LEI 5188: Trends in Leisure Studies

LEI 6108: Contemporary Theories of Recreation and Leisure

LEI 6325: Ecotourism

LEI 6326: Sport Tourism

LEI 6336: Tourism Planning and Development

LEI 6351: Heritage Tourism

LEI 6439: Campus Recreation Administration and Programming

LEI 6513: Administrative Procedures in Leisure Services

LEI 6514: Administrative Issues in Recreation, Parks, and Tourism

LEI 6557: Recreation Management/Development in the Coastal Zone

LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism

LEI 6895: Tourism Theory and Concepts

LEI 6903: Readings in Recreation, Parks, and Tourism

LEI 6905: Directed Independent Study

LEI 6910: Supervised Research

LEI 6931: Special Topics in Recreation, Parks, and Tourism

LEI 6935: Seminar in Recreation, Parks, and Tourism

LEI 6940: Supervised Teaching

LEI 6944: Practicum in Leisure Studies

LEI 6971: Research for Master's Thesis

LEI 7170: Foundations of Leisure Behavior

LEI 7901: Recreation, Parks, and Tourism in Higher Education

LEI 7904: Advanced Readings in Recreation, Parks, and Tourism

LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism

LEI 7910: Advanced Supervised Research

LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism

LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism

LIN 5657: Gender and Language

LIN 5741: Applied English Grammar

LIN 6084: Introduction to Graduate Research

LIN 6165: Field Methods

LIN 6208: Phonetics for Linguists

LIN 6226: Advanced Phonetics

LIN 6323: Phonology

LIN 6341: Issues in Phonology

LIN 6402: Morphology

LIN 6410: Issues in Morphology

LIN 6501: Syntax

LIN 6520: Issues in Syntax

LIN 6571: Structure of Specific Language

LIN 6601: Sociolinguistics

LIN 6622: Bilingualism

LIN 6707: Psycholinguistics

LIN 6708C: Methods in Psycholinguistics

LIN 6720: Second Language Acquisition

LIN 6773: Topics in Computational Linguistics

LIN 6796: Cognitive Neuroscience of Language

LIN 6804: Semantics I

LIN 6826: Introduction to Formal Pragmatics

LIN 6856: Semantics II

LIN 6905: Individual Study

LIN 6910: Supervised Research

LIN 6932: Special Topics

LIN 6940: Supervised Teaching

LIN 6971: Research for Master's Thesis

LIN 7118: History of Linguistics

LIN 7641: Seminar in Language Variation

LIN 7725: Topics in Second Language Acquisition

LIN 7885: Discourse Analysis and Pragmatics

LIN 7979: Advanced Research

LIN 7980: Research for Doctoral Dissertation

LIT 5335: Approaches to Children's and Adolescent Literature

LIT 6037: Studies in Verse

LIT 6047: Studies in Drama

LIT 6236: Postcolonial Studies

LIT 6308: Studies in Comics and Animation

LIT 6309: Communications and Popular Culture

LIT 6327: Studies in Folklore

LIT 6357: African-Amer. or African Diaspora Lit./Cultures

LIT 6358: Theoretical Approaches to Black Cultural Studies

LIT 6855: Issues in Cultural Studies

LIT 6856: Cultural Studies: Interventions

LIT 6857: Cultural Studies: Movements

LIT 6934: Variable Topics

LNW 5325: Roman Elegiac Poetry

LNW 5655: Roman Poets: Horace

LNW 5665: Roman Poets: Vergil

LNW 5675: Roman Poets: Ovid

LNW 5931: Comparative Study of Latin and Greek Literature

LNW 6105: The Roman Tradition

LNW 6225: The Ancient Roman Novel

LNW 6335: Roman Oratory and Rhetoric

LNW 6365: Studies in Roman Satire

LNW 6385: Roman Historians

LNW 6495: Late Latin Literature

LNW 6905: Individual Work

LNW 6933: Special Topics in Latin Literature

LNW 6935: Proseminar in Classics

LNW 6940: Supervised Teaching

LNW 6971: Research for Master's Thesis

LNW 7979: Advanced Research

LNW 7980: Research for Doctoral Dissertation

MAA 5104: Advanced Calculus for Engineers and Physical Scientists I

MAA 5105: Advanced Calculus for Engineers and Physical Scientists II

MAA 5228: Modern Analysis I

MAA 5229: Modern Analysis II

MAA 5404: Introduction to Complex Variables for Engineers and Physical Scientists

MAA 6236: Mathematical Analysis for Statisticians

MAA 6406: Complex Analysis I

MAA 6407: Complex Analysis II

MAA 6616: Analysis I

MAA 6617: Analysis II

MAA 7526: Advanced Topics in Functional Analysis I

MAA 7527: Advanced Topics in Functional Analysis II

MAD 6206: Combinatorial Theory I

MAD 6207: Combinatorial Theory II

MAD 6406: Numerical Linear Algebra

MAD 6407: Numerical Analysis

MAD 7396: Topics in Combinatorial Theory I

MAD 7397: Topics in Combinatorial Theory II

MAE 5327: Middle School Mathematics Methods

MAE 5332: Secondary School Mathematics Methods and Assessment

MAE 5347: Teaching K-8 Mathematics for Understanding

MAE 5395: Multicultural Mathematics Methods

MAE 5396: Using Formative Assessment to Improve Mathematical Learning

MAE 5945: Secondary School Mathematics Practicum

MAE 6313: Problem Solving in School Mathematics

MAE 6615: Individualizing Instruction in Mathematics

MAE 6641: Readings and Research in Mathematics Education

MAE 6916: Inquiry in Mathematics Teaching

MAE 6940: Supervised Teaching

MAE 6943: Internship in College Teaching

MAE 7899: Mathematics Education Seminar

MAN 5141: Leadership Skills

MAN 5245: Organizational Behavior

MAN 5246: Organizational Behavior

MAN 5265: Managing Groups and Teams

MAN 5501: Management

MAN 5502: Production and Operations Management

MAN 6107: Motivation in Organizational Setting

MAN 6128: Management Skills and Personal Development

MAN 6149: Developing Leadership Skills

MAN 6257: Power and Politics in Organizations

MAN 6266: Managing Groups and Teams in Organizations

MAN 6286: Managing Strategic Processes and Change in Organizations

MAN 6296: Designing Effective Organizations

MAN 6321: Human Resource Management

MAN 6331: Compensation in Organizations

MAN 6351: Training and Development in Organizations

MAN 6365: Organizational Staffing

MAN 6366: Organizational Staffing

MAN 6385: Strategic Human Resource Management

MAN 6446: Negotiations

MAN 6447: Art and Science of Negotiation

MAN 6508: Management of Service Operations

MAN 6511: Production Management Problems

MAN 6528: Principles of Logistics/Transportation Systems

MAN 6537: Managing Technology in Organizations

MAN 6573: Purchasing and Materials Management

MAN 6575: Purchasing and Supplier Relationship Management

MAN 6581: Project Management

MAN 6586: Project Management

MAN 6598: Logistics and Distribution Management

MAN 6599: Tactical Logistics Planning

MAN 6617: International Operations/Logistics

MAN 6619: International Logistics

MAN 6627: Cross Cultural Negotiation

MAN 6635: International Aspects of Human Resource Management

MAN 6636: Global Strategic Management

MAN 6637: Global Strategic Management

MAN 6721: Business Policy

MAN 6724: Strategic Management

MAN 6905: Individual Work in Management

MAN 6910: Supervised Research

MAN 6930: Special Topics

MAN 6940: Supervised Teaching

MAN 6957: International Studies in Management

MAN 6958: International Study Program

MAN 6973: Project in Lieu of Thesis

MAN 7108: Seminar in Research Concepts and Methods in Management

MAN 7109: Seminar in Motivation and Attitudes

MAN 7146: Seminar in Leadership

MAN 7207: Seminar on Foundations of Organizational Theory

MAN 7208: Seminar in Contemporary Approaches to Organizations

MAN 7267: Seminar on Groups and Teams Research

MAN 7275: Organizational Behavior

MAN 7328: Seminar on Staffing and Selection

MAN 7778: Seminar in Strategic Adaptation to Environment

MAN 7779: Strategic Processes and Structure in Organizations

MAN 7933: Seminar in Management

MAN 7979: Advanced Research

MAN 7980: Research for Doctoral Dissertation

MAP 5304: Intermediate Differential Equations for Engineers and Physical Scientists

MAP 5345: Introduction to Partial Differential Equations

MAP 5489: Modeling in Mathematical Biology

MAP 6208: Numerical Optimization

MAP 6327: Applied Differential Equations I

MAP 6356: Partial Differential Equations I

MAP 6357: Partial Differential Equations II

MAP 6375: Numerical Partial Differential Equations

MAP 6376: Finite Element Method

MAP 6467: Stochastic Differential Equations and Filtering Theory I

MAP 6468: Stochastic Differential Equations and Filtering Theory II

MAP 6472: Probability and Potential Theory I

MAP 6473: Probability and Potential Theory II

MAP 6487: Biomathematics Seminar I

MAP 6488: Biomathematics Seminar II

MAP 6505: Mathematical Methods of Physics and Engineering

MAP 6506: Mathematical Methods of Physics and Engineering II

MAP 6941: Internship in Applied Mathematics

MAP 7436: Seminar in Applied Mathematics I

MAP 7437: Seminar in Applied Mathematics II

MAR 5805: Problems and Methods in Marketing Management

MAR 5806: Problems and Methods in Marketing Management

MAR 6157: International Marketing

MAR 6158: International Marketing

MAR 6237: The Art and Science of Pricing

MAR 6256: Strategy and Tactics of Pricing

MAR 6335: Building and Managing Brand Equity

MAR 6456: Business-to-Business Marketing

MAR 6508: Customer Analysis

MAR 6646: Marketing Research for Managerial Decision Making

MAR 6648: Marketing Research for Managerial Decision Making

MAR 6722: Web-Based Marketing

MAR 6725: Introduction to Electronic Commerce

MAR 6816: Advanced Marketing Management (MBA)

MAR 6818: Advanced Marketing Management

MAR 6833: Product Development and Management

MAR 6834: Marketing of Science and Technology

MAR 6835: Marketing of Science and Technology

MAR 6837: Consumer-Centered Product Design

MAR 6861: Customer Relationship Management

MAR 6862: Customer Relationship Management

MAR 6905: Individual Work

MAR 6910: Supervised Research

MAR 6930: Special Topics in Marketing

MAR 6940: Supervised Teaching

MAR 6957: International Studies in Marketing

MAR 6971: Research for Master's Thesis

MAR 6973: Project in Lieu of Thesis

MAR 7507: Perspectives on Consumer Behavior

MAR 7588: Consumer Information Processing and Decision Making

MAR 7589: Judgment and Decision Making

MAR 7626: Multivariate Statistical Methods in Marketing

MAR 7636: Research Methods in Marketing

MAR 7666: Marketing Decision Models

MAR 7786: Marketing Literature

MAR 7925: Workshop in Marketing Research

MAR 7979: Advanced Research

MAR 7980: Research for Doctoral Dissertation

MAS 5311: Introductory Algebra I

MAS 5312: Introductory Algebra II

MAS 6331: Algebra I

MAS 6332: Algebra II

MAS 7215: Theory of Numbers I

MAS 7216: Theory of Numbers II

MAS 7396: Advanced Topics in Algebra I

MAS 7397: Topics in Algebra II

MAT 6905: Individual Work

MAT 6910: Supervised Research

MAT 6932: Special Topics in Mathematics

MAT 6971: Research for Master's Thesis

MAT 7979: Advanced Research

MAT 7980: Research for Doctoral Dissertation

MCB 5205: Microbiology of Human Pathogens

MCB 5252: Microbiology, Immunology, and Immunotherapeutics

MCB 5305L: Microbial Genetics and Biotechnology Laboratory

MCB 5408: Anaerobic Microbiology and Biotechnology

MCB 5458: Energy Transformation in Microorganisms

MCB 5505: General Virology

MCB 6317: Molecular Biology of Gene Expression

MCB 6318: Comparative Microbial Genomics

MCB 6355: Microbial/Host Defense

MCB 6409: Microbial Cell Structure and Function

MCB 6417: Microbial Metabolism and Energetics

MCB 6457: Metabolic Regulation

MCB 6465: Microbial Metabolic Engineering

MCB 6485: Advanced Techniques in Microbiology and Cell Science

MCB 6772: Advanced Topics in Cell Biology

MCB 6905: Experimental Microbiology

MCB 6910: Supervised Research

MCB 6930: Seminar

MCB 6937: Special Topics in Microbiology

MCB 6940: Supervised Teaching

MCB 6971: Research for Master's Thesis

MCB 7922: Journal Colloquy

MCB 7979: Advanced Research

MCB 7980: Research for Doctoral Dissertation

MET 5504: Weather and Forecasting

MET 6530: Hurricanes

MET 6565: Seminar in Atmospheric Teleconnections

MET 6752: Atmospheric Data Analysis

MHF 5107: Introduction to Set Theory

MHF 5207: Foundations of Mathematics

MHF 6306: Mathematical Logic I

MHF 6307: Mathematical Logic II

MHS 5005: Introduction to Counseling

MHS 6000: Assessment and Treatment of Family Violence

MHS 6020: Counseling in Community Settings

MHS 6061: Spiritual Issues in Multicultural Counseling

MHS 6071: Diagnosis and Treatment of Mental Disorders

MHS 6200: Assessment in Counseling

MHS 6340: Career Development

MHS 6401: Counseling Theories and Applications

MHS 6421: Play Counseling and Play Process with Children

MHS 6428: Multicultural Counseling

MHS 6430: Introduction to Family Counseling

MHS 6440: Marriage Counseling

MHS 6450: Substance Abuse Counseling

MHS 6464: Introduction to Disaster Mental Health Counseling

MHS 6466: Trauma and Crisis Intervention: Theory and Practice

MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations

MHS 6468: Multicultural issues in disaster mental health counseling

MHS 6469: Traumatic Stress and Disaster Mental Health Counseling

MHS 6471: Sexuality and Mental Health

MHS 6480: Developmental Counseling Over the Life Span

MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients

MHS 6500: Group Counseling: Theories and Procedures

MHS 6602: Educational Mediation

MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling

MHS 6720: Professional Identity and Ethics in Counseling

MHS 6831: Supervision for a Split Internship

MHS 6905: Individual Work

MHS 6910: Supervised Research

MHS 6940: Supervised Teaching

MHS 6971: Research for Master's Thesis

MHS 7402: Brief Therapy

MHS 7407: Advanced Counseling Theories

MHS 7431: Advanced Family Counseling

MHS 7600: Consultation Procedures

MHS 7610: Practicum in Counseling Supervision

MHS 7730: Seminar in Counseling Research

MHS 7740: Research in Counseling

MHS 7800: Practicum in Counseling

MHS 7804: Group Supervision in Agency Counseling

MHS 7805: Practicum in Agency Counseling

MHS 7806: Practicum in Marriage and Family Counseling

MHS 7807: Group Supervision in Marriage and Family Counseling

MHS 7830: Internship in Counseling and Development-600 Hours

MHS 7840: Internship in Counselor Education

MHS 7946: Internship in Agency Program Management

MHS 7979: Advanced Research

MHS 7980: Research for Doctoral Dissertation

MMC 5005: Mass Communication History

MMC 5006: Introduction to Multimedia Communication

MMC 5015: Electronic Publishing

MMC 5206: Advanced Law of Mass Communication

MMC 5277: Web Design Principles

MMC 5306: International Communication

MMC 5315: Survey of Foreign Correspondence

MMC 5427: Research Methods in Digital Communication

MMC 5636: Introduction to Social Media

MMC 5708: Foundations of Intercultural Communication

MMC 6202: Legal Problems of Mass Communication

MMC 6278: Advanced Web Topics II

MMC 6307: Seminar in International Communication

MMC 6400: Mass Communication Theory

MMC 6402: Seminar in Mass Communication Theory

MMC 6405: Seminar in Mass Communication and Public Opinion

MMC 6409: Science/Health Communication

MMC 6417: Seminar in Mass Media and Health

MMC 6421: Research Methods in Mass Communication

MMC 6423: Content-Analysis Methods

MMC 6426: Seminar in Qualitative Research

MMC 6428: Collaborative Communication Research

MMC 6429: News and Numbers

MMC 6560: Seminar in History of Mass Communication

MMC 6612: New Media and a Democratic Society

MMC 6615: Race, Class, Gender, and Media

MMC 6618: Survey of Political Communication

MMC 6619: Seminar in Political Advertising

MMC 6660: Mass Communication and Society

MMC 6665: Seminar in First Amendment Theory

MMC 6666: Seminar in Research in Mass Communication Law

MMC 6667: Seminar in Advanced Topics in Mass Communication Law

MMC 6668: Seminar in Public Policy Toward Mass Media

MMC 6706: Covering the Arts

MMC 6725: Social Media and Society

MMC 6726: Social Media and Virtual Worlds

MMC 6727: Social Media Metrics

MMC 6728: Branding Using Social and Mobile Media

MMC 6730: Social Media Management

MMC 6905: Individual Work

MMC 6910: Supervised Research

MMC 6920: Communication Proseminar

MMC 6929: Communication Colloquium

MMC 6930: Seminar in Mass Communication Teaching

MMC 6936: Special Topics in Mass Communication

MMC 6949: Professional Internship

MMC 6951: Masters Project Seminar

MMC 6971: Research for Master's Thesis

MMC 6973: Project in Lieu of Thesis

MMC 7979: Advanced Research

MMC 7980: Research for Doctoral Dissertation

MTG 5316: Introduction to Topology I

MTG 5317: Introduction to Topology II

MTG 5411: Introduction to Fractal Geometry

MTG 5412: Introduction to Dynamical Systems and Chaos

MTG 6256: Differential Geometry I

MTG 6257: Differential Geometry II

MTG 6346: Topology I

MTG 6347: Topology II

MTG 6401: Ergodic Theory and Dynamical Systems I

MTG 6402: Ergodic Theory and Dynamical Systems II

MTG 7396: Advanced Topics in Topology I

MTG 7397: Advanced Topics in Topology II

MUC 5315: Introduction to Electroacoustic Music

MUC 6444: Composition of Electronic Music

MUC 6445: Electroacoustic Music Composition: Digital I

MUC 6446: Electroacoustic Music Composition--Digital II

MUC 6900: Secondary Graduate Composition

MUC 6930: Graduate Composition

MUC 6932: Composition Seminar

MUC 7447: Advanced Seminar in Electroacoustic Music

MUC 7931: Advanced Graduate Composition

MUC 7938: Seminar in Digital Sound Processing, Control, and Composition

MUE 6080: Historical and Philosophical Foundations of Music Education

MUE 6385: Music in Higher Education

MUE 6399: Creative Thinking in Music

MUE 6444: Materials and Methods of String Class Teaching

MUE 6497: Public School Orchestral Literature

MUE 6647: Trends in Teaching and Learning Music

MUE 6696: Technology Assisted Music Learning

MUE 6747: Assessing Music Learning

MUE 6785: Research in Music Education

MUE 6790: Capstone Project for Music Education

MUE 6931: Instructional Design in Music Education

MUE 7746: Measurement and Evaluation of Music

MUE 7938: Music Education Seminar

MUG 6105: Graduate Conducting

MUG 7106: Advanced Graduate Conducting

MUH 5219: Graduate Music History Review

MUH 5505: Introduction to Ethnomusicology

MUH 5684: Introduction to Historical Musicology

MUH 6526: American Vernacular Music

MUH 6545: The Guitar in Latin American Culture

MUH 6548: Seminar in Caribbean Music

MUH 6549: Seminar in Brazilian Music

MUH 6635: Seminar in American Music

MUH 6665: History of Opera

MUH 6671: Seminar in Renaissance Music

MUH 6672: Seminar in Baroque Music

MUH 6673: Seminar in Classical Music

MUH 6674: Seminar in Nineteenth-Century Music

MUH 6675: Seminar in Twentieth-Century Music

MUH 6931: Nationalism in Music

MUH 6935: Special Topics in Music History

MUH 7411: Medieval and Renaissance Notation

MUH 7938: Musicology Seminar

MUL 6435: String Literature

MUL 6486: Piano Literature

MUL 6495: Graduate Organ Literature

MUL 6555: Survey of Wind Literature

MUL 6565: Chamber Music Literature

MUL 6645: Choral Literature

MUN 6010: Graduate Ensemble

MUN 6125: Concert Band

MUN 6135: Symphonic Band

MUN 6145: Symphonic Wind Ensemble

MUN 6215: University Orchestra

MUN 6315: University Choir

MUN 6325: Women's Chorale

MUN 6335: Men's Glee Club

MUN 6445: Percussion Ensemble

MUN 6495: Steel Drum Ensemble

MUN 6496: World Music Ensemble

MUN 6497: New Music Ensemble

MUN 6715: Jazz Band

MUR 6206: Survey of Hymnody

MUR 6705: Sacred Music Literature

MUS 5911: Directed Study

MUS 6685: Psychology of Music

MUS 6716: Methods of Musical Research and Bibliography

MUS 6905: Projects and Problems

MUS 6910: Supervised Research

MUS 6940: Supervised Teaching

MUS 6971: Research for Master's Thesis

MUS 6973: Individual Project

MUS 7656: Teaching Music and the Creative Process

MUS 7905: Projects and Problems

MUS 7979: Advanced Research

MUS 7980: Research for Doctoral Dissertation

MUT 6051: Graduate Music Theory Review

MUT 6445: Advanced Counterpoint

MUT 6531: Figured Bass and Continuo Performance

MUT 6565: Late Nineteenth- and Twentieth-Century Styles

MUT 6576: Contemporary Styles

MUT 6617: Approaches to Theoretical Analysis in Music Education

MUT 6624: Seminar in Set Theory

MUT 6627: Seminar in Reductive Analysis

MUT 6629: Analytical Techniques

MUT 6751: Pedagogy of Music Theory

MUT 6936: Music Theory Seminar

MUT 7316: Advanced Orchestration

MUT 7585: Seminar in Musical Style

MUT 7760: History of Music Theory

MVK 5156: Improvisational Keyboard Skills and Related Technology

MVK 6605: Organ Pedagogy

MVK 6651: Piano Pedagogy

MVK 6661: Advanced Piano Pedagogy

MVO 6250: Secondary Music Performance

MVO 6460: Music Performance

MVO 7460: Music Performance

MVS 6651: String Pedagogy I

MVW 6651: Vocal Pedagogy

NEM 5004C: Graduate Survey of Nematology

NEM 5707C: Plant Nematology

NEM 6101C: Nematode Morphology and Anatomy

NEM 6102: Nematode Systematics and Molecular Phylogeny

NEM 6102L: Nematode Systematics and Molecular Phylogeny Laboratory

NEM 6103: Insect Parasitic Nematodes

NEM 6104L: Insect Parasitic Nematodes Laboratory

NEM 6201: Nematode Ecology

NEM 6708: Field Plant Nematology

NEM 6905: Problems in Nematology

NEM 6931: Nematology Seminar

NEM 6932: Special Topics in Nematology

NEM 6934: Selected Studies in Nematology

NEM 6940: Supervised Teaching

NEM 6942: Nematode Diagnostics

NEM 6943: Nematode Internship

NEM 6944: Nematode Extension Internship

NEM 6971: Research for Master's Thesis

NEM 7979: Advanced Research

NEM 7980: Research for Doctoral Dissertation

NGR 5934: Cultural Influences on Health Care

NGR 6002C: Advanced Health Assessment

NGR 6006: Principles of Clinical Outcomes Management

NGR 6052C: Adult Nursing: Diagnostics and Procedures

NGR 6054C: Advanced Neonatal Health Assessment and Diagnostic Reasoning

NGR 6101: Theory and Research for Nursing

NGR 6140: Physiology and Pathophysiology for Advanced Nursing Practice

NGR 6172: Pharmacotherapeutics for Advanced Practice Nursing

NGR 6230C: Acute Care Nurse Practitioner: Diagnostics and Procedures for the Critically Ill

NGR 6240: Primary Care for Adults

NGR 6241: Adult Nursing: Common Health Problems

NGR 6241L: Adult Nurse Practitioner: Common Health Problems Laboratory

NGR 6243: Acute Care Nurse Practitioner: Critically Ill Adult

NGR 6243L: Acute Care Nurse Practitioner: Critically Ill Adult Laboratory

NGR 6244: Adult Nursing: Chronic Health Problems

NGR 6244L: Adult Nurse Practitioner: Chronic Health Problems Laboratory

NGR 6247: Complex High Prevalence Illnesses Of Adults

NGR 6247L: Complex High Prevalence Illnesses Of Adults

NGR 6248: Adult Acute Care Nurse Practitioner 3

NGR 6248L: Adult Acute Care Nurse Practitioner 3

NGR 6255: Advanced Nursing Care of Older Adult

NGR 6301: Advanced Child Health Nursing I

NGR 6301L: Advanced Child Health Nursing I

NGR 6302: Advanced Child Health Nursing II

NGR 6302L: Advanced Child Health Nursing II

NGR 6307: Advanced Child Health Nursing III

NGR 6307L: Advanced Child Health Nursing III

NGR 6320C: Neonatal Care I

NGR 6321C: Neonatal Care II

NGR 6323C: Neonatal Care III

NGR 6350: Family Nurse Practitioner: Women, Adolescents, And Children

NGR 6350L: Family Nurse Practitioner: Women, Adolescents, And Children

NGR 6360C: Nurse-Midwifery Care I

NGR 6361C: Nurse-Midwifery Care II

NGR 6364: Seminar: The Nurse Midwife

NGR 6371: Pharmacotherapeutics for Advanced Neonatal Nursing

NGR 6372C: Advanced Pediatric Procedures and Diagnostics

NGR 6500C: Individual and Family Therapy for Psychiatric-Mental Health Nursing

NGR 6501C: Group Therapy and Community Interventions for Psychiatric-Mental Health Nursing

NGR 6538: Psychopharmacology for Psychiatric Nursing

NGR 6612: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)

NGR 6612L: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)

NGR 6636: Wellness Promotion and Disease Prevention

NGR 6726: Management of the Care Environment II

NGR 6727: Management of the Care Environment I

NGR 6740: Role Transition: Issues in Advanced Practice Nursing

NGR 6770: Leadership/Role of Clinical Nurse Leader

NGR 6771: Clinical Nurse Leader Role Seminar

NGR 6773: Clinical Nurse Leader Residency/Internship

NGR 6815: Foundations of Qualitative Research in Nursing

NGR 6840: Applied Statistical Analysis I

NGR 6845: Applied Statistical Analysis II

NGR 6850: Research Methods and Utilization for Nursing

NGR 6892: Health Care Policy and Organizational Delivery

NGR 6905: Individual Study

NGR 6930: Special Topics in Nursing

NGR 6941: Practicum in Nursing

NGR 6944: Individual Clinical Practice

NGR 6970: Research for Master's Project

NGR 6971: Research for Master's Thesis

NGR 7003: Advanced Diagnostic Reasoning

NGR 7115: Philosophy of Nursing Science

NGR 7124: Theory Development in Nursing

NGR 7176: Advanced Topics in Pharmacotherapeutics in Nursing

NGR 7700: Leadership and Role Development in Advanced Nursing Practice

NGR 7709: Nurse Scientist and Scholar I

NGR 7814: Field Methods for Health Related Research

NGR 7816: Quantitative Research Design and Measurement in Nursing

NGR 7827: Outcomes Research and Evaluation

NGR 7831: Quality Indicators in Nursing Systems

NGR 7835: Nurse Scientist and Scholar II

NGR 7871: Nursing Informatics and Data

NGR 7882: Ethical Theories and Rational Decision Making in Health

NGR 7891: Health Policy and Finance in Advanced Nursing Practice

NGR 7940L: Residency in Advanced Nursing Practice

NGR 7970L: Advanced Nursing Project

NGR 7979: Advanced Research

NGR 7980: Research for Doctoral Dissertation

OCP 5293: Coastal Processes

OCP 6050: Physical Oceanography

OCP 6165: Ocean Waves I: Linear Theory

OCP 6165L: Ocean Waves Laboratory

OCP 6167: Ocean Waves II: Nonlinear Theory

OCP 6168: Data Analysis Techniques for Coastal and Ocean Engineers

OCP 6169: Random Sea Analysis

OCP 6295: Estuarine and Shelf Hydrodynamics I

OCP 6297: Coastal and Estuarine Sediment Transport

OCP 6298: Coastal Sediment Transport Processes

ORH 5026C: Advanced Annual and Perennial Gardening

ORH 5086: Advanced Golf and Sports Turf Management

ORH 5282: Orchid Biology and Culture

ORH 5322C: Palm Biology and Culture

ORH 5817C: Advanced Florida Native Landscaping

ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture

OTH 5002: Foundations of Occupational Therapy

OTH 5115C: Therapeutic Skills II: Areas of Occupation

OTH 5324: Psychosocial Intervention

OTH 5435: Therapeutic Skills I

OTH 5722: Professional Development in Occupational Therapy

OTH 5726C: Service Delivery and OT Management

OTH 5770C: Research for Occupational Therapy

OTH 5812: Practicum I

OTH 5816: Practicum II

OTH 5848: Internship I

OTH 5849: Internship II

OTH 6008: Neuroscience of Human Occupation

OTH 6106: Assistive Technology and Occupational Performance

OTH 6539: Occupational Therapy Theory

OTH 6635: Principles of Occupational Therapy Screening and Evaluation I

OTH 6636: Principles of Occupational Therapy Screening and Evaluation II

OTH 6641: Occupational Therapy Interventions I

OTH 6642: Occupational Therapy Interventions II

OTH 6707: OT Manager

OTH 6708: Issues in Occupational Therapy Practice I

OTH 6709: Issues in Occupational Therapy Practice II

OTH 6720: Trends and Issues in Health Care

OTH 6763: Evidence Based Practice

OTH 6861: Specialty Internship

OTH 6905: Individual Work

OTH 6907: Professional Development Project

OTH 6933: Special Topics in Occupational Therapy

OTH 6971: Research for Master's Thesis

PAD 5935: Advanced Topics in Public Administration

PAD 6108: Public Administration Theory

PAD 6227: Public Budgeting and Finance

PAD 6434: Leadership and Ethics in Public Agencies

PAD 6946: Internship in Government

PCB 5046C: Advanced Ecology

PCB 5065: Advanced Genetics

PCB 5136L: Techniques in Microbial and Cell Biology

PCB 5235: Immunology

PCB 5235L: Experiments in Immunology

PCB 5307C: Limnology

PCB 5338: Principles of Ecosystem Ecology

PCB 5356: Tropical Ecology

PCB 5415C: Behavioral Ecology

PCB 5530: Plant Molecular Biology and Genomics

PCB 5615: Molecular Evolution and Systematics

PCB 6049: Seminar in Ecology

PCB 6377C: Physiological Ecology of Vertebrates

PCB 6447C: Community Ecology

PCB 6528: Plant Cell and Developmental Biology

PCB 6555: Introduction to Quantitative Genetics

PCB 6675C: Evolutionary Biogeography

PCB 6695: Seminar in Evolutionary Biology

PCB 6816: Thermal Physiology

PCB 6910: Supervised Research

PCB 6937: Special Topics in Plant Molecular and Cellular Biology

PCB 6971: Research for Master's Thesis

PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology

PCB 7979: Advanced Research

PCB 7980: Research for Doctoral Dissertation

PCO 6057: Psychology of Counseling I

PCO 6058: Psychology of Counseling II

PCO 6059: Psychology of Counseling III

PCO 6278: Diversity and Multiculturalism in Counseling Psychology

PCO 6316C: Psychological Assessment I

PCO 6317C: Psychological Assessment II

PCO 6931: History and Contemporary Issues in Counseling Psychology

PCO 6939: Seminar: Current Topics in Counseling Psychology

PCO 7217: Professional Ethics and Skills in Counseling Psychology

PCO 7247: Group Counseling/Psychology

PCO 7537: Vocational Psychology

PCO 7944: Practicum in Counseling Psychology

PCO 7945: Advanced Practicum in Counseling Psychology

PCO 7949: Internship in Counseling Psychology

PEQ 5127: Advanced Instructors of Adapted Aquatics

PET 5936: Special Topics/Seminars

PET 6910: Supervised Research

PET 6940: Supervised Teaching

PET 6947: Graduate Internship in Exercise and Sport Sciences

PET 6971: Research for Master's Thesis

PHA 5171: Pharmaceutical Biotechnology

PHA 5270: Health Care and Patient Safety

PHA 5271: Health Care Risk Management

PHA 5272: Risk Management, Liability and Compliance

PHA 5475: Synthesis of Prodrugs

PHA 5531: Neurotoxicology

PHA6115: Equilibria, Complexations, and Interactions of Drugs

PHA6116: In Vivo and In Vitro Stability of Drugs

PHA6118: Molecular Diversity

PHA6125: Pharmacokinetics and Biopharmaceutics

PHA6170C: Pharmaceutical Product Formulation

PHA6183: Pharmaceutical Gene Delivery

PHA6185: Pharmaceutical Drug Development

PHA6206: Introduction to Pharmaceutical Microeconomics

PHA6227: Institutional Pharmacy Leadership I

PHA6228: Institutional Pharmacy Leadership II

PHA6235: Advanced Pharmaceutical Law

PHA6236: Health Sciences Liability Law

PHA6250: Patient Responsibility in Health Care

PHA6264: Pharmacoeconomics and Health Technology Assessment

PHA6265: Introduction to Pharmaceutical Outcomes and Policy I

PHA6266: Introduction to Pharmaceutical Outcomes and Policy II

PHA6268: Pharmacoepidemiology and Patient Safety

PHA6269: Pharmaceutical Products and Public Policy

PHA6273: Structure, Process, and Outcomes of Regulation

PHA6274: Federal Regulations of Drugs and Pharmacy

PHA6275: Federal Regulations of Controlled Substances

PHA6276: Regulating Pharmaceutical Access and Costs

PHA6277: Ethics in Drug Development Production and Use

PHA6278: State Regulation of Drugs and Pharmacy

PHA6279: Pharmaceutical Outcomes and Policy Seminar

PHA6280: Medicare and Medicaid

PHA6281: Practices and Procedures of Administrative Agencies

PHA6282: Pharmaceutical Policy Process

PHA6283: Commercial Applications of Pharmacoeconomics

PHA6286: Pharmaceutical Microeconomics

PHA6287: Pharmaceutical Health Economics

PHA6288: Critical Review of Research Methods

PHA6289: Regulating Clinical Research

PHA 6290: Pharmaceutical Fraud and Abuse

PHA 6291: Pharmaceutical Health Care Systems

PHA 6354: Natural Medicinal Products

PHA 6356: Structure Determination of Complex Natural Products

PHA 6357: Herbal & Dietary Supplements

PHA 6416: Pharmaceutical Analysis I

PHA 6417: Pharmaceutical Analysis II

PHA 6425: Drug Biotrans and Molecular Mechanisms of Toxicity

PHA 6427: Pharmacogenetics of Drug Metabolism

PHA 6432: Fundamentals of Pharmaceutical Chemistry

PHA 6440: Seminar in Drug Discovery

PHA 6444: Pharmaceutical Chemistry I

PHA 6447: Drug Design

PHA 6448: High Throughput Drug Discovery

PHA 6449: Pharmacogenomics

PHA 6471: Synthetic Medicinal Chemistry

PHA 6508: Systems Physiology and Pathophysiology I

PHA 6509: Systems Physiology and Pathophysiology II

PHA 6512L: Experiential Research Training in Pharmacodynamics

PHA 6521C: Research Techniques in Pharmacodynamics

PHA 6522L: ICBR Molecular Techniques Laboratory

PHA 6534: Toxicology of Chemical Weapons

PHA 6535: Principles of Nucleotide Activity

PHA 6540: Neurochemical Foundation of Pharmacodynamics

PHA 6543: Pharmaceutical Chemistry II

PHA 6556: Introduction to Clinical Toxicology

PHA 6557: Clinical Toxicology 1

PHA 6630: Medication Therapy Management: A Hematologic Focus

PHA 6631: Foundations of Medication Therapy Management I

PHA 6632: Foundations of Medication Therapy Management II

PHA 6633: Medication Therapy Management: A Cardiovascular Focus

PHA 6634: Medication Therapy Management: An Endocrine Focus

PHA6635: Medication Therapy Management: A Renal Focus

PHA6636: Medication Therapy Management: A Gastrointestinal Focus

PHA6637: Medication Therapy Management: A Psychiatric Focus

PHA6638: Medication Therapy Management: A Neurologic Focus

PHA6639: Medication Therapy Management: A Respiratory Focus

PHA6717: Measurement in Pharmacy Administration Research

PHA6793: Evidentiary Basis of Pharmaceutical Use

PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research

PHA6798: The Use and Abuse of Statistics in Drug Regulation

PHA6799: Patient Safety Program Evaluation

PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy

PHA6806: Pharmacoeconomic Modeling

PHA6840: Medicinal Chemistry of Drugs of Abuse

PHA6850: Principles of Forensic Science

PHA6851: Forensic Analysis of DNA

PHA6852: Mammalian Molecular Biology

PHA6853: Biological Evidence and Serology

PHA6854: Forensic Immunology

PHA6855: Forensic Genetics

PHA6856: Blood Spatter and Distribution

PHA6860: Prevention of Pharmaceutical Crimes

PHA6891: Introduction to Pharmacoepidemiology

PHA6892: Practices and Procedures of the IRB

PHA6893: Research Ethics

PHA6894: Introduction to Graduate Studies

PHA6896: Preclinical Drug Evaluation

PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology

PHA6905C: Research Procedures in Medicinal Chemistry

PHA6910: Supervised Research

PHA6934: Seminar in Medicinal Chemistry

PHA6935: Selected Topics in Pharmacy

PHA6936: Advanced Topics in Pharmaceutical Sciences

PHA6937: Topics in Pharmaceutical Administration

PHA 6938: Research Seminar

PHA 6940: Supervised Teaching

PHA 6971: Research for Master's Thesis

PHA 7939: Journal Colloquy in Pharmacodynamics

PHA 7979: Advanced Research

PHA 7980: Research for Doctoral Dissertation

PHC 6000: Epidemiology Methods I

PHC 6001: Principles of Epidemiology in Public Health

PHC 6002: Epidemiology of Infectious Diseases

PHC 6003: Epidemiology of Chronic Diseases and Disability

PHC 6006: An Introduction to One Health Problem Solving

PHC 6008: Cardiovascular Epidemiology

PHC 6009: Biology and Epidemiology of HIV/AIDS

PHC 6010: Data Management and Statistical Computing for Epidemiology

PHC 6011: Epidemiology Methods II

PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II

PHC 6016: Social Epidemiology in Public Health

PHC 6020: Clinical Trial Methods

PHC 6034: Epidemic Investigation

PHC 6036: Environmental Infectious Diseases: A Molecular Approach

PHC 6050: Statistical Methods for Health Sciences Research I

PHC 6050C: Biostatistical Methods I

PHC 6051: Biostatistical Methods II

PHC 6052: Introduction to Biostatistical Methods

PHC 6053: Regression Methods for the Health and Life Sciences

PHC 6055: Biostatistical Computing Using R

PHC 6063: Biostatistical Consulting

PHC 6070: Epidemiology of Aging

PHC 6080: SAS for Public Health - Data

PHC 6081: SAS for Public Health - Analysis

PHC 6102: Introduction to Public Health Administrative Systems

PHC 6103: Systems Thinking for Public Health

PHC 6104: Evidence-Based Management of Public Health Programs

PHC 6105: Health Promotion Policy and Practice

PHC 6107: Introduction to Veterinary Public Health

PHC 6146: Public Health Program Planning and Evaluation

PHC 6153: Public Policy and Aging

PHC 6183: Disaster Preparedness and Emergency Response

PHC 6194: Spatial Epidemiology

PHC 6195: Health information for Diverse Populations: Theory & Methods

PHC 6220: Overview of Long-Term Care

PHC 6251: Assessment and Surveillance in Public Health

PHC 6301: Aquatic Systems and Environmental Health

PHC 6309: Environmental Justice Issues in Public Health

PHC 6312: Water Quality and Human Health

PHC 6313: Environmental Health Concepts in Public Health

PHC 6316: Health, Risk, and Crisis Communication

PHC 6317: Risk Communication for Public Health Practice

PHC 6346: Occupational and Environmental Health Among Agriculture Workers

PHC 6370: Public Health Biology

PHC 6403: Adolescence, Risk Taking and Health

PHC 6404: Gender, Sexuality, and Health

PHC 6405: Theoretical Foundations of Public Health

PHC 6410: Psychological, Behavioral, and Social Issues in Public Health

PHC 6413: Critical Incidents and Violence in Communities

PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology

PHC 6419: Biomedical and Psychological Aspects of Very Late Life

PHC 6421: Public Health Law and Ethics

PHC 6441: Health Disparities in the United States

PHC 6445: Global Public Health and Development II

PHC 6447: Ecology of HIV/Aids in the Rural South

PHC 6512: Environmental Management of Vector-Borne Diseases

PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety

PHC 6517: Public Health Concepts in Infectious Diseases

PHC 6519: Zoonotic Diseases in Humans and Animals

PHC 6520: Foodborne Diseases

PHC 6530: Public Health Issues of Mothers and Children

PHC 6543: Community Practice of Behavioral Health Risk Prevention

PHC 6544: Health Behavior Interventions in Practice

PHC 6561: Public Health Laboratory Techniques

PHC 6585: Health Promotion and Disease Prevention

PHC 6586: Interventions for Public Health

PHC 6601: Seminar in Contemporary Public Health Issues

PHC 6607: Critical Issues in Public Health

PHC 6700: Social and Behavioral Research Methods

PHC 6702: Exposure Measurement and Assessment

PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective

PHC 6711: Measurement in Epidemiology and Outcomes Research

PHC 6716: Survey Research Methods

PHC 6722: Environmental and Global Health Research Methods Rotation

PHC 6762: International Public Health

PHC 6764: Global Public Health and Development I

PHC 6900: Environmental and Global Health Journal Club

PHC 6905: Independent Study

PHC 6912: Special Project: Independent Research

PHC 6913: Biostatistics Project

PHC 6917: Supervised Research Project

PHC 6930: Integrated Public Health Seminar

PHC 6931: Seminars in Public Health

PHC 6937: Special Topics in Public Health

PHC 6938: Oral and Craniofacial Epidemiology

PHC 6945: Public Health Practicum

PHC 6946: Public Health Internship

PHC 6947: Occupational Health Field Research Experience

PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods

PHC 7007: Cancer Epidemiology

PHC 7013: Bias in Observational Research

PHC 7038: Psychiatric Epidemiology

PHC 7056: Analysis of Longitudinal Data

PHC 7065: Critical Skills in Epidemiological Data Management

PHC 7066: Large Sample Theory

PHC 7427: Ethics in Population Science

PHC 7587: Theory Development and Testing in Behavioral & Community Public Health

PHC 7727: Grant Writing for Population Health Research

PHC 7752: Seminar in Instrument Development for Public Health

PHC 7901: Epidemiology Literature Review and Critique (Journal Club)

PHC 7902: Epidemiology Supervised Research Writing Circle

PHC 7907: Social and Behavioral Science Journal Club

PHC 7910: International Field Epidemiology

PHC 7916: National Field Epidemiology

PHC 7925: Biostatistics Journal Club

PHC 7934: Seminar I: Epidemiology Past, Present, and Future

PHC 7935: Critical Thinking in Environmental and Global Health

PHC 7979: Advanced Research

PHC 7980: Research for Doctoral Dissertation

PHH 5405: Modern Philosophy I

PHH 5406: Modern Philosophy II

PHH 5605: Studies in Continental Philosophy

PHH 6105: Seminar in Ancient Philosophy

PHH 6425: Seminar in Modern Philosophy

PHI 5135: Graduate Logic

PHI 5225: Philosophy of Language

PHI 5325: Philosophy of Mind

PHI 5365: Epistemology

PHI 5405: Philosophy of Science

PHI 5425: Philosophy of Social Science

PHI 5505: Metaphysics

PHI 5665: Ethical Theory

PHI 5905: Individual Work

PHI 5934: Topics in Philosophy

PHI 5935: Proseminar

PHI 6105: Seminar in Logic

PHI 6226: Seminar in Philosophy of Language

PHI 6306: Seminar in Epistemology

PHI 6326: Seminar in Philosophy of Mind

PHI 6406: Seminar in Philosophy of Science

PHI 6506: Seminar in Metaphysics

PHI 6667: Seminar in Ethics

PHI 6787: Seminar in Continental Philosophy

PHI 6905: Individual Work

PHI 6910: Supervised Research

PHI 6934: Special Topics

PHI 6940: Supervised Teaching

PHI 6971: Research for Master's Thesis

PHI 7979: Advanced Research

PHI 7980: Research for Doctoral Dissertation

PHP 5005: Ancient Philosophy I

PHP 5015: Ancient Philosophy II

PHP 5785: Foundations of Analytic Philosophy

PHP 6415: Seminar in Kant

PHP 6795: Seminar in Analytic Philosophy

PHP 6930: Seminar in a School or Thinker

PHT 5156: Exercise Physiology

PHT 6125C: Concepts in Clinical Biomechanics

PHT 6127C: Control of Gait and Posture

PHT 6167C: Applied Neurophysiology for Physical Therapy

PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy

PHT 6316: Neurological Aspects of Orthopedic Rehabilitation

PHT 6615L: Research Instrumentation in Physical Therapy

PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation

PHY 5277: Physics of Accident Reconstruction and Biomechanics

PHY 5905: Individual Work

PHY 6246: Classical Mechanics

PHY 6346: Electromagnetic Theory I

PHY 6347: Electromagnetic Theory II

PHY 6536: Statistical Mechanics I

PHY 6555C: Cryogenics

PHY 6645: Quantum Mechanics I

PHY 6646: Quantum Mechanics II

PHY 6648: Quantum Field Theory I

PHY 6905: Individual Work

PHY 6910: Supervised Research

PHY 6920: Departmental Colloquium

PHY 6932: Seminar in Molecular and Computational Physics

PHY 6943: Internship in College Teaching

PHY 6971: Research for Master's Thesis

PHY 7097: Advanced Topics in Theoretical Physics

PHY 7669: Quantum Field Theory II

PHY 7939: Special Topics

PHY 7979: Advanced Research

PHY 7980: Research for Doctoral Dissertation

PHZ 5155C: Physical Modeling and Simulation

PHZ 5245: Introduction to Magnetic Resonance

PHZ 5354: Introduction to Particle Physics

PHZ 5405: Introduction to Solid-State Physics

PHZ 6156: Computer Methods in Physics

PHZ 6166: Qualitative Methods of Theoretical Physics

PHZ 6355: Elementary Particle Physics I

PHZ 6358: Standard Model of Elementary Particles I

PHZ 6391: Seminar in Astrophysics

PHZ 6392: Seminar in Particle Physics

PHZ 6426: Solid State I

PHZ 6493: Seminar in Condensed Matter Physics

PHZ 6607: Special and General Relativity

PHZ 7357: Elementary Particle Physics II

PHZ 7359: Standard Model of Elementary Particles II

PHZ 7427: Solid State II

PHZ 7428: Modern Condensed Matter Physics

PHZ 7429: Phases of Condensed Matter

PHZ 7608: Special and General Relativity II

PKG 5003: Advanced Distribution and Transport Packaging

PKG 5006: Advanced Packaging Principles

PKG 5105: Advanced Consumer Products Packaging

PKG 5206C: Advanced Package Decoration

PKG 5256C: Advanced Analytical Packaging Methods

PKG 6100: Advanced Computer Tools for Packaging

PKG 6905: Individual Work in Packaging

PKG 6932: Special Topics in Packaging Sciences

PLP 5005C: General Plant Pathology

PLP 5102: Theory and Practice of Plant Disease Control

PLP 5115C: Citrus Pathology

PLP 5155: Microbiological Control of Plant Diseases and Weeds

PLP 6223C: Viral Pathogens of Plants

PLP 6241C: Bacterial Plant Pathogens

PLP 6262C: Fungal Plant Pathogens

PLP 6291: Plant Disease Diagnosis

PLP 6303: Host-Parasite Interactions II

PLP 6404: Epidemiology of Plant Disease

PLP 6502: Host-Parasite Interactions I

PLP 6621C: Pop Genetics Microbes

PLP 6656C: Fungal Biology

PLP 6905: Problems in Plant Pathology

PLP 6910: Supervised Research

PLP 6921: Colloquium in Principles of Plant Pathology

PLP 6932: Seminar in Plant Pathology

PLP 6940: Supervised Teaching

PLP 6942: Professional Internship in Plant Disease Clinic

PLP 6971: Research for Master's Thesis

PLP 7946: Plant Pathology Internship

PLP 7979: Advanced Research

PLP 7980: Research for Doctoral Dissertation

PLS 5222C: Propagation of Horticultural Crops

PLS 5241C: Advanced Plant Micropropagation

PLS 5405: Advanced Composting Technology

PLS 5632C: Integrated Weed Management

PLS 5652: Advanced Weed Science

PLS 6623: Weed Ecology

PLS 6626: Invasive Plant Ecology

PLS 6655: Plant/Herbicide Interaction

PMA 5205: Citrus Pest Management

PMA 6228: Field Techniques in Integrated Pest Management

POS 5935: Advanced Topics in Political Science

POS 6045: Seminar in American Politics

POS 6048: American Political Development

POS 6127: State Government and Politics

POS 6146: Urban Politics

POS 6157: Community Analysis

POS 6196: Patrons, Clients, Corruption, and Accountability

POS 6207: Political Behavior

POS 6208: Empirical Political Research

POS 6272: Political Participation

POS 6274: Political Campaigning

POS 6278: Advanced Campaign Strategy

POS 6279: The Politics of Direct Democracy

POS 6292: Religion and Politics

POS 6427: Legislative Process

POS 6453: Political Parties and Interest Groups

POS 6458: Politics of Campaign Finance

POS 6476: Bureaucratic Politics in the U.S.

POS 6707: Qualitative Research Methods for Political Science

POS 6712: Empirical Theories of Politics

POS 6716: Scope and Epistemologies of Political Science

POS 6736: The Conduct of Inquiry

POS 6737: Political Data Analysis

POS 6747: Topics in Political Research Methodology

POS 6757: Survey Research

POS 6909: Individual Work

POS 6910: Supervised Research

POS 6933: Special Topics

POS 6940: Supervised Teaching

POS 6971: Research for Master's Thesis

POS 7979: Advanced Research

POS 7980: Research for Doctoral Dissertation

POT 5935: Advanced Topics in Political Theory

POT 6016: Ancient Political Thought

POT 6056: Modern Political Thought

POT 6067: Contemporary Political Theory

POT 6306: Liberalism and Its Critics

POT 6314: Democratic Theory

POT 6416: The Marxist Tradition and its Critics

POT 6505: Politics and Theory

POT 6516: Political Judgment

POW 6276: Twentieth-Century Brazilian Novel

POW 6385: Brazilian Lyric

POW 6386: Brazilian Drama

POW 6905: Individual Work

POW 6930: Rotating Topics in Brazilian or Portuguese Literature

PPE 6059: Seminar in Personality

PSB 5445: Drug Use and Abuse

PSB 5935: Seminar in Physiological Psychology

PSB 6082: Neuroethology

PSB 6087: Advanced Physiological Psychology

PSB 6088L: Behavioral Neurobiology

PSB 6099: Survey of Physiological and Comparative Psychology

PSB 7248: Neurobehavioral Relations

PSB 7249: Seminar in Neural Mechanisms and Behavior

PSY 6608: History of Psychology

PSY 6905: Individual Work

PSY 6910: Supervised Research

PSY 6930: Topics in Psychology

PSY 6939: Seminar: The Teaching of Psychology

PSY 6940: Supervised Teaching

PSY 6971: Research for Master's Thesis

PSY 7979: Advanced Research

PSY 7980: Research for Doctoral Dissertation

PUP 5935: Advanced Topics in Public Policy

PUP 6006: Policy Evaluation

PUP 6007: Policy Process

PUP 6009: Public Policy Analysis

PUP 6315: Race, Gender, and Politics

PUR 5507: Persuasion Theory and Research

PUR 6005: Theories of Public Relations

PUR 6006: Public Relations Foundations

PUR 6403: Crisis and Risk Management

PUR 6416: Public Relations and Fund Raising

PUR 6446: Public Relations and Philanthropy

PUR 6506: Public Relations Research

PUR 6607: Public Relations Management

PUR 6608: International Public Relations

PUR 6934: Problems in Public Relations

QMB 5303: Managerial Statistics

QMB 5304: Introduction to Managerial Statistics

QMB 5305: Advanced Managerial Statistics

QMB 6358: Statistical Analysis for Managerial Decisions I

QMB 6359: Statistical Analysis for Managerial Decisions II

QMB 6607: Decision Processes Under Uncertainty I

QMB 6616: Business Process Analysis

QMB 6693: Quality Management and Control Systems

QMB 6697: Optimization in Simulation Modeling I

QMB 6755: Managerial Quantitative Analysis I

QMB 6756: Managerial Quantitative Analysis II

QMB 6905: Individual Work in Information Systems and Operations Management

QMB 6910: Supervised Research

QMB 6930: Special Topics in Information Systems and Operations Management

QMB 6940: Supervised Teaching

QMB 6941: Internship

QMB 6957: International Studies in Quantitative Methods

QMB 6971: Research for Master's Thesis

QMB 7931: Special Topics in Information Systems and Operations Management

QMB 7933: Seminar in Information Systems and Operations Management

QMB 7979: Advanced Research

QMB 7980: Research for Doctoral Dissertation

RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling

RCS 6066: Rehabilitation Issues in Human Growth and Development

RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling

RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling

RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling

RCS 6412: Rehabilitation Counseling Theory and Practice

RCS 6470: Human Sexuality and Disability

RCS 6601: Forensic Rehabilitation Consultation I

RCS 6602: Forensic Rehabilitation Consultation II

RCS 6625: Community Counseling and Case Management

RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling

RCS 6740: Rehabilitation Research

RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation

RCS 6801: Rehabilitation Counseling Practicum

RCS 6825: Internship in Rehabilitation Counseling

RCS 6905: Individual Work

RCS 6910: Supervised Research

RCS 6931: Special Topics

RCS 6940: Supervised Teaching

RCS 6945: Advanced Rehabilitation Counseling Practicum

RCS 6971: Research for Master's Degree

RED 5046: Foundations of Reading in Grades PreK-12

RED 5316: Reading in the Primary Grades

RED 5337: Reading in the Secondary School

RED 5355: Reading Instruction in the Intermediate Grades

RED 5399: Practices in Beginning Reading Instruction

RED 6346: Seminar in Reading

RED 6520: Classroom Literacy Assessment and Instruction

RED 6546C: Diagnosis of Reading Difficulties

RED 6548C: Remediation of Reading Difficulties

RED 6647: Trends in Reading

RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties

RED 7019: Foundations of Literacy

RED 7817: Understanding Reading Difficulties

REE 6045: Introduction to Real Estate

REE 6058: Construction Considerations in Real Estate

REE 6105: Real Estate Appraisal

REE 6206: Primary Mortgage Markets and Institutions

REE 6208: Secondary Mortgage Markets and Securitization

REE 6315: Real Estate Market and Transaction Analysis

REE 6395: Investment Property Analysis

REE 6397: Real Estate Securities and Portfolios

REE 6705: Geographic Information Systems and Location Analysis

REE 6737: Real Estate Development

REE 6905: Individual Work in Real Estate

REE 6910: Supervised Research

REE 6930: Special Topics in Real Estate

REE 6935: Real Estate Case Studies

REE 6940: Supervised Teaching

REE 6948: Capstone Seminar and Applied Project

REE 6957: International Studies in Real Estate

REE 7979: Advanced Research

REE 7980: Research for Doctoral Dissertation

REL 6347: American Buddhism

REL 6368: Islam in Asia

REL 6397: Hindu Sacred Texts and Their Ritual Context

RLG 5143: Religion and Social Change

RLG 5195: Topics in Religion and Society

RLG 5297: Topics in Biblical Studies

RLG 5338: Topics in Asian Religions

RLG 5365: Studies in Islam

RLG 5396: Religion and Animals

RLG 5495: Topics in Religious Thought

RLG 5549: Studies in Christianity

RLG 5696: Topics in Jewish Thought

RLG 5906: Individual Work

RLG 5937: Topics in Religious Studies

RLG 6035: Method and Theory I

RLG 6036: Method and Theory II

RLG 6095: Utopias and Dystopias

RLG 6107: Core Seminar in Religion and Nature

RLG 6125: Religion and Politics in the Americas

RLG 6126: Religion in the Americas

RLG 6129: Hindu Traditions in America

RLG 6137: Religion in North America

RLG 6138: New Religious Movements

RLG 6167: Radical Environmentalism

RLG 6181: Ethics and the Natural Sciences

RLG 6183: Religion and Environmental Ethics

RLG 6187: Nature in Asian Religions

RLG 6196: Globalizing the Sacred

RLG 6310: Religion and Nature in South Asia

RLG 6319: Interpreting Asian Religions

RLG 6339: Women in the Hindu Tradition

RLG 6346: Buddhist Traditions

RLG 6385: Native Religions in the Americas

RLG 6387: Religions in Latin America

RLG 6910: Supervised Research

RLG 6940: Supervised Teaching

RLG 6957: Overseas Studies in Religion

RLG 6971: Research for Master's Thesis

RLG 7979: Advanced Research

RLG 7980: Research for Doctoral Dissertation

RSD 6110: Rehabilitation Science Theory and Application I

RSD 6112: Rehabilitation Science Theory and Application II

RSD 6114: Rehabilitation in the United Kingdom

RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science

RSD 6700: Rasch Measurement: Introduction and Application

RSD 6705: Research Methods in Rehabilitation

RSD 6706: Scientific Writing for the Rehabilitation Professional

RSD 6900: College Classroom: Teaching Process and Practice

RSD 6905: Individual Work

RSD 6910: Supervised Research

RSD 6930: Special Topics in Rehabilitation Science

RSD 6940: Supervised Teaching

RSD 7979: Advanced Research

RSD 7980: Research for Doctoral Dissertation

RTV 5702: Telecommunication Regulation

RTV 6105: Writing for Electronic Media

RTV 6309: Advanced TV Reporting

RTV 6508: Audience Analysis

RTV 6801: Telecommunication Management

RTV 6807: Telecommunication Outlet Systems and Practices

RTV 6973: Project in Lieu of Thesis

SCE 5316: Inquiry-Based Science Teaching

SCE 5355: Foundations of Science Teaching

SCE 5695: Diversity and Equity in Science Teaching

SCE 5765: Data-Driven Science Instruction

SCE 6045: Environmental Education Methods and Materials

SCE 6117: Science Education in the Elementary School

SCE 6246: Science Instruction in Informal Settings

SCE 6338: Secondary Science Methods and Assessment

SCE 6647: Global Studies Methods in Science Education

SCE 6947: Practicum in Secondary Science Teaching and Assessment

SDS 6401: Counseling Skills for Non-Counselors

SDS 6411: Counseling with Children

SDS 6413: Counseling Adolescents

SDS 6436: Family-School Intervention

SDS 6520: Family, Student Development and Role of Teacher as Adviser

SDS 6620: Organization and Administration of School Counseling Programs

SDS 6831: Supervision for a Split Internship

SDS 6905: Individual Work

SDS 6936: Seminar in Counselor Education

SDS 6938: Special Topics

SDS 7800: Practicum in School Counseling

SDS 7820: Group Supervision in School Counseling

SDS 7830: Internship in Counseling and Development-600 Hours

SOP 6099: Survey of Social Psychology

SOP 6219C: Advanced Research Techniques in Social-Personality Psychology

SOP 6409: Seminar: Current Topics in Social-Personality Psychology

SOP 6419: Seminar: Attitudes and Social Cognition

SOP 6509: Seminar: Interpersonal Relations and Group Processes

SOP 6929: Colloquium on Research in Social-Personality Psychology

SPA 5051: Clinical Observation in Audiology

SPA 5102: Auditory Anatomy and Physiology

SPA 5128: Speech Perception

SPA 5204: Phonological Disorders

SPA 5211: Voice Disorders

SPA 5225: Principles of Speech Pathology: Stuttering

SPA 5245: Communicative Disorders Related to Cleft Palate

SPA 5254: Neurocognitive Language Disorders

SPA 5304: Principles of Audiological Evaluation

SPA 5315: Peripheral and Central Auditory Disorders

SPA 5401: Speech Pathology Language Disorder

SPA 5405: Language Disorders II

SPA 5553: Instrumentation and Diagnosis in Speech-Language Pathology

SPA 5563: Psychosocial Aspects of Hearing Loss

SPA 5646: Speech and Language of the Deaf and Hard of Hearing

SPA 6008: Medical Aspects of Speech-Language Pathology

SPA 6010: Basic Auditory Sciences

SPA 6117: Science of Singing

SPA 6133L: Hearing Aid Analysis Laboratory

SPA 6207: Applied Phonological Disorders: Diagnosis and Treatment

SPA 6211: Applied Voice Disorders: Diagnosis and Treatment

SPA 6217: Vocal Health and Habilitation

SPA 6229: Applied Fluency Disorders: Diagnosis and Treatment

SPA 6233: Speech Motor Control Disorders

SPA 6270: Auditory Processing Disorders

SPA 6305: Pediatric Audiology

SPA 6311: Medical Audiology

SPA 6312: Advanced Audiology and Neuro-Otology

SPA 6317: Vestibular Disorders

SPA 6323: Audiologic Rehabilitation for Adults

SPA 6324: Audiologic Rehabilitation for Children

SPA 6340: Amplification I

SPA 6341: Amplification II

SPA 6342: Amplification III

SPA 6390: Proseminar: Speech-Language Pathology and Audiology

SPA 6410: Adult Language Disorders

SPA 6416: Applied Neurogenic Disorders: Diagnosis and Treatment

SPA 6430: Applied Developmental Disorders: Diagnosis and Treatment in Speech and Language

SPA 6436: Issues in Autism Spectrum Disorders

SPA 6506: Clinical Clerkship in Audiology

SPA 6507: Applied Augmentative and Alternative Communication

SPA 6521: Practicum in Speech-Language Diagnostics: UFSHC

SPA 6524: Practicum in Speech-Language Therapy: UFSHC

SPA6531: Clinical Practice in Hearing Assessment

SPA6533: Clinical Practice in Aural Rehabilitation

SPA6559: Alternative and Augmentative Communication

SPA6564: Communication and Aging

SPA6565: Seminar in Dysphagia

SPA6568: Clinical Evaluation in Medical Speech-Language Pathology

SPA6570: Seminar: Professional Aspects of Speech-Language Pathology

SPA6581: Special Clinical

SPA6805: Introduction to Graduate Research

SPA6830: Communication Disorders in Medically Complex Pediatric Populations

SPA6905: Individual Study

SPA6910: Supervised Research

SPA6930: Proseminar in Speech-Language Pathology and Audiology

SPA6935: Applied Reading Disabilities: Diagnosis and Treatment

SPA6936: Special Topics

SPA6940: Supervised Teaching

SPA6942: Externship in Speech-Language Pathology

SPA6971: Research for Master's Thesis

SPA7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions

SPA7306: Audiologic Assessment in a Medical Setting

SPA7318: Clinical Auditory Electrophysiology

SPA7319: Balance Disorders: Evaluation and Treatment

SPA7325: Audiologic Rehabilitation

SPA7343: Cochlear Implants and Assistive Devices

SPA7348: Principles of Amplification

SPA7353: Environmental Hearing Conservation

SPA7354: Seminar in Audiology: Hearing Conservation and Noise Control

SPA7391: Business and Professional Issues in Audiology

SPA7415: Neurolinguistics of Adult Language Disorders

SPA7500: Public School Practicum

SPA7523: Practicum in Speech Pathology in a Medical/Dental Setting

SPA7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders

SPA 7566: Counseling Individuals with Hearing Losses

SPA 7833: Audiology Research Project

SPA 7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities

SPA 7945: Graduate Practicum in Audiology

SPA 7946: Clinical I: Practicum in Medical Speech and Language Pathology

SPA 7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology

SPA 7958: Clinical Externship

SPA 7979: Advanced Research

SPA 7980: Research for Doctoral Dissertation

SPC 6239: Studies in Rhetorical Theory

SPM 5016: Sport Sociology

SPM 5206: Sport Ethics

SPM 5309: Sport Marketing

SPM 5506: Sport Finance

SPM 5936: Current Topics in Sport Management

SPM 6006: Contemporary Sport Industry

SPM 6036: Research Seminar in Sport Management

SPM 6106: Management and Planning of Sport and Physical Activity Facilities

SPM 6158: Management and Leadership in Sport

SPM 6308: Study of Sport Consumer Behaviors

SPM 6726: Issues in Sport Law

SPM 6905: Directed Independent Study

SPM 6910: Supervised Research

SPM 6947: Graduate Internship in Sport Management

SPM 6948: Advanced Practicum in Sport Management

SPM 6971: Research for Master's Thesis

SPN 6166: Teaching Spanish for the Professions

SPN 6315: Advanced Composition and Syntax

SPN 6425: Writing for the Profession

SPN 6705: Foundations of Hispanic Linguistics

SPN 6715: Formal Instruction and Acquisition of Spanish

SPN 6735: Special Study in Spanish Linguistics

SPN 6785: Advanced Spanish Phonetics

SPN 6827: Sociolinguistics of the Spanish-Speaking World

SPN 6835: Spanish and Spanish-American Dialectology

SPN 6845: History of the Spanish Language

SPN 6848: Medieval Spanish Linguistics

SPN 6855: Structure of Spanish

SPN 6856: Spanish in Contact: Issues in Bilingualism

SPN 6900: Directed Readings in Spanish

SPN 6940: Supervised Teaching

SPN 6945: Practicum in Advanced College Teaching

SPS 6052: Issues and Problems in School Psychology

SPS 6191: Psychoeducational Assessment I

SPS 6192: Psychoeducational Assessment II

SPS 6193: Academic Assessment & Intervention

SPS 6195: Developmental Psychopathology

SPS 6197: Psychoeducational Assessment III

SPS 6410: Direct Interventions I: Applied Behavior Analysis for School Psychologists

SPS 6707: Interventions in School Psychology II: Cognitive Behavioral Interventions

SPS 6708: Interventions in School Psychology III: System Level Interventions for Children and Youths

SPS 6815: Law and Ethics in Psychology

SPS 6905: Individual Study

SPS 6910: Supervised Research

SPS 6937: Special Topics in School Psychology

SPS 6940: Supervised Teaching

SPS 6941: Practicum in School Psychology

SPS 6942: School Psychology Practicum II

SPS 6945: Advanced Practicum in School Psychology

SPS 7205: School Psychology Consultation

SPS 7931: Seminar in School Psychology

SPS 7949: Internship in School Psychology

SPS 7979: Advanced Research

SPS 7980: Research for Doctoral Dissertation

SPW 6209: Colonial Spanish-American Literature

SPW 6216: Spanish Prose Fiction of the Golden Age

SPW 6236: Spanish-American Narrative from the origins to Criollismo

SPW 6269: Spanish Novel of the Nineteenth Century

SPW 6278: Postwar Spanish Fiction

SPW 6285: Contemporary Spanish-American Narrative I

SPW 6286: Contemporary Spanish-American Narrative II

SPW 6306: Spanish-American Theater

SPW 6315: Spanish Drama of the Golden Age

SPW 6337: Golden Age Poetry

SPW 6345: Twentieth-Century Spanish Poetry

SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo

SPW 6357: Contemporary Spanish-American Poetry

SPW 6366: Spanish-American Essay

SPW 6535: Spanish Romanticism

SPW 6545: Spanish Romanticism

SPW 6606: Cervantes

SPW 6729: The Generation of 1898

SPW 6806: Introduction to Graduate Study and Research

SPW 6902: Special Study in Spanish or Spanish-American Literature

SPW 6905: Individual Work

SPW 6910: Supervised Research

SPW 6934: Seminar in Spanish American Literature and Culture

SPW 6938: Seminar in Spanish Literature and Culture

SPW 6971: Research for Master's Thesis

SPW 7979: Advanced Research

SPW 7980: Research for Doctoral Dissertation

SRK 6905: Individual Study in Sanskrit

SSE 5320: Middle School Social Studies Methods

SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment

SSE 6046: Perspectives in Social Studies Education

SSE 6117: Social Studies Education—Elementary School

SSE 6133: Secondary School Social Studies Methods and Assessment

SSE 6478: Global Studies Methods in Social Studies

STA5106: Computer Programs in Statistical Analysis

STA5223: Applied Sample Survey Methods

STA5325: Fundamentals of Probability

STA5328: Fundamentals of Statistical Theory

STA5503: Categorical Data Methods

STA5507: Applied Nonparametric Methods

STA5701: Applied Multivariate Methods

STA5715: Applied Survival Analysis

STA5823: Stochastic Process Methods

STA5856: Applied Time Series Methods

STA6092: Applied Statistical Practice

STA6126: Statistical Methods in Social Research I

STA6127: Statistical Methods in Social Research II

STA6166: Statistical Methods in Research I

STA6167: Statistical Methods in Research II

STA6177: Applied Survival Analysis

STA6178: Genetic Data Analysis

STA6207: Regression Analysis

STA6208: Basic Design and Analysis of Experiments

STA6209: Design and Analysis of Experiments

STA6226: Sampling Theory and Application

STA6246: Theory of Linear Models

STA6326: Introduction to Theoretical Statistics I

STA6327: Introduction to Theoretical Statistics II

STA6329: Matrix Algebra and Statistical Computing

STA6505: Analysis of Categorical Data

STA6526: Nonparametric Statistics

STA6707: Analysis of Multivariate Data

STA6826: Stochastic Processes

STA6857: Time Series Analysis

STA6866: Monte Carlo Statistical Methods

STA 6905: Individual Work

STA 6910: Supervised Research

STA 6934: Special Topics in Statistics

STA 6938: Seminar

STA 6940: Supervised Teaching

STA 6942: Internship

STA 6971: Research for Master's Thesis

STA 7179: Survival Analysis

STA 7249: Generalized Linear Models

STA 7334: Limit Theory

STA 7346: Statistical Inference

STA 7347: Advanced Inference

STA 7348: Bayesian Theory

STA 7466: Probability Theory I

STA 7467: Probability Theory II

STA 7527: Theory of Nonparametric Statistics

STA 7828: Topics in Stochastic Processes

STA 7934: Special Topics in Statistics

STA 7979: Advanced Research

STA 7980: Research for Doctoral Dissertation

SUR 5365: Digital Mapping

SUR 5385: Remote Sensing Applications

SUR 5386: Image Processing for Remote Sensing

SUR 5391C: Geomatics: Spatial Foundations of GIS

SUR 5425: Cadastral Information Systems

SUR 5525: Least Squares Adjustment Computations

SUR 6375: Terrain Analysis and Mapping

SUR 6395: Topics in Geographic Information Systems

SUR 6427: Land Tenure and Administration

SUR 6535: GPS-INS Integration

SUR 6905: Special Problems in Geomatics

SUR 6934: Topics in Geomatics

SWS 5050: Soils for Environmental Professionals

SWS 5050L: Soils for Environmental Professionals Laboratory

SWS 5115: Environmental Nutrient Management

SWS 5132: Tropical Soil Management

SWS 5182: Earth System Analysis

SWS 5208: Sustainable Agricultural and Urban Land Management

SWS 5224: Environmental Biogeochemistry

SWS 5234: Environmental Soil, Water, and Land Use

SWS 5235: South Florida Ecosystems

SWS 5246: Water Resource Sustainability

SWS 5247: Hydric Soils

SWS 5248: Wetlands and Water Quality

SWS 5305C: Soil Microbial Ecology

SWS 5308: Ecology of Waterborne Pathogens

SWS 5406: Soil and Water Chemistry

SWS 5424C: Soil Chemical Analysis

SWS 5551: Soils, Water, and Public Health

SWS 5605C: Environmental Soil Physics

SWS 5716C: Environmental Pedology

SWS 5721C: GIS in Land Resource Management

SWS 5805: Environmental Soil and Water Monitoring Techniques

SWS 6134: Soil Quality

SWS 6136: Soil Fertility

SWS 6161: Bioavailability of Soil Nutrients

SWS 6262: Soil Contamination and Remediation

SWS 6323: Advanced Microbial Ecology

SWS 6325: Rhizosphere Biochemistry

SWS 6366: Biodegradation and Bioremediation

SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems

SWS 6454: Advanced Soil and Water Chemistry

SWS 6456: Advanced Biogeochemistry

SWS 6464C: Soil Mineralogy

SWS 6622: Vadose Zone Hydrology

SWS 6722: Soil-Landscape Modeling

SWS 6905: Special Problems

SWS 6910: Supervised Research

SWS 6931: Seminar

SWS 6932: Topics in Soils

SWS 6940: Supervised Teaching

SWS 6971: Research for Master's Thesis

SWS 7979: Advanced Research

SWS 7980: Research for Doctoral Dissertation

SYA6018: Classical Social Theories

SYA6126: Contemporary Sociological Theory

SYA6305: Methods in Social Research I

SYA6306: Methods in Social Research II

SYA6315: Qualitative Research Methods

SYA6327: Research Problems in Deviance

SYA6407: Quantitative Research Methods

SYA6905: Individual Work

SYA6910: Supervised Research

SYA6942: Applied Social Research Project

SYA6971: Research for Master's Thesis

SYA7933: Special Study in Sociology

SYA7979: Advanced Research

SYA7980: Research for Doctoral Dissertation

SYD 6436: Metropolitan Growth and Development

SYD 6517: Seminar in Environment and Society

SYD 6518: Core Issues in Environmental and Resource Sociology

SYD 6706: Racial and Ethnic Relations

SYD 6707: Black and White Americans: Sociological Perspectives

SYD 6806: Gender and Society

SYD 6807: Sociology of Gender

SYD 6825: Men and Masculinities

SYD 7808: Reproduction and Gender

SYO 6107: American Families

SYO 6126: Family Theories

SYO 6175: Topics in Family Research

SYO 6407: Health Disparities

SYO 6427: Health and Aging

SYO 6535: Social Inequality

SYP 6115: Seminar in Symbolic Interaction

SYP 6517: Theories of Crime and Deviance

SYP 6545: Sociology of Law

SYP 6735: Sociology of Aging and the Life Course

SYP 6736: Sociology of the Aged

SYP 6745: Aging and End-of-Life Issues

TAX 5005: Introduction to Federal Income Taxation

TAX 5025: Federal Income Tax 1

TAX 5027: Federal Income Tax 2

TAX 5065: Tax Professional Research

TAX 6105: Corporate Taxation

TAX 6115: Advanced Corporate Taxation

TAX 6205: Partnership Taxation

TAX 6526: International Taxation

TAX 6726: Executive Tax Planning

TAX 6877: State and Local Taxation

THE 5238: African-American Theatre History and Practice

THE 5287: History of Decor and Architecture for the Stage

THE 5910: Introduction to Graduate Study in Theatre

THE 6265: Costume History

THE 6525: History, Literature, and Criticism I

THE 6526: History, Literature, and Criticism II

THE 6565: Seminar in Creative Process

THE 6905: Individual Study

THE 6940: Supervised Teaching

THE 6941: Internship

THE 6950: Applied Theatre

THE 6955: Summer Repertory Theatre

THE 6971: Research for Master's Thesis

THE 6973C: Project in Lieu of Thesis

TPA 5025: Lighting Design I

TPA 5047: Costume Design I

TPA 5067: Scene Design I

TPA 5072: Drawing and Rendering

TPA 5079: Graduate Scene Painting

TPA 5082: Advanced Theatre Graphics

TPA 5236: Costume Technologies Workshop

TPA 6005: Design I

TPA 6006: Design II

TPA 6009: Design Studio

TPA 6026: Lighting Design II

TPA 6048: Costume Design II

TPA 6054: Detail Design for Costume Designers

TPA 6069: Scene Design II

TPA 6235: Costume Construction

TPA 6237: Pattern Making: Flat Patterning

TPA 6243: Pattern Making: Draping

TPA 6258: Computer Drafting 2D

TPA 6357: Programming and Presentation for the Lighting Designer

TPP 5234: Mutli-Cultural Performance Workshop

TPP 6115: Graduate Acting I: Modern Acting Theory and Practice

TPP 6116: Graduate Acting II: Shakespeare and High Style

TPP 6145: Graduate Acting III: Period Styles

TPP 6149: Acting IV: Contemporary Realism

TPP 6225: Professional Seminar: Acting

TPP 6237: MFA Company Acting Workshop

TPP 6266: Acting for the Camera

TPP 6285: Voice and Movement I

TPP 6286: MFA Voice and Speech II: Shakespeare and High Styles

TPP 6297: The Alexander Technique I

TPP 6298: The Alexander Technique II

TPP 6299: The Alexander Technique III

TPP 6385: Directing

TPP 6515: Graduate Movement Training

TPP 6536: Graduate Stage Combat

TPP 6717: MFA Voice and Speech III: Period Styles

TPP 6718: MFA Voice and Speech IV: Advanced Vocal Training for the Actor

TPP 6946: Performance Practicum

TSL 5142: ESOL Curriculum, Methods, and Assessment

TSL 5325: Secondary ESOL Teaching Strategies

TSL 6145: Curriculum and Materials Development for ESOL K-12

TSL 6171: TESL I: Materials and Techniques

TSL 6172: TESL II: Materials for Special Purposes

TSL 6245: Language Principles for ESOL Teachers

TSL 6373: Methods of Teaching ESOL K-12

TSL 6440: Testing and Evaluation of ESOL

TSL 6700: Issues in ESOL for School Counselors and Psychologists

TTE 5006: Advanced Urban Transportation Planning

TTE 5256: Traffic Engineering

TTE 5305: Advanced Transportation Systems Analysis

TTE 5805: Geometric Design of Transportation Facilities

TTE 5835: Pavement Design

TTE 5837: Pavement Management Systems

TTE 6205: Freeway Operations and Simulation

TTE 6207: Advanced Highway Capacity Analysis

TTE 6259: Urban Streets Simulation and Control

TTE 6267: Traffic Flow Theory

TTE 6306: Computational Methods in Transportation Engineering

TTE 6315: Highway Safety Analysis

TTE 6505: Discrete Choice Analysis

TTE 6606: Urban Transportation Models

URP 6042: Urban Economy

URP 6061: Planning Administration and Ethics

URP 6100: Planning Theory and History

URP 6122: Alternative Conflict Management

URP 6131: Growth Management Powers I

URP 6132: Growth Management Seminar

URP 6203: Planning Research Design

URP 6231: Quantitative Data Analysis for Planners

URP 6270: Survey of Planning Information Systems

URP 6271: Planning Information Systems

URP 6272: Advanced Planning Information Systems

URP 6274: GPS for Planners: Introduction to Global Positioning System

URP 6275: Spatial Database Design and Development

URP 6276: Internet Geographic Information Systems

URP 6277: Land Use Visioning and Analysis

URP 6312: Land Development Planning and Evaluation

URP 6341: Urban Planning Project

URP 6421: Environmental Impact Statements

URP 6424: Sustainable Urbanism in the Americas

URP 6428: Advanced Environmental Planning

URP 6429: Natural Resources Planning and Management

URP 6445: Planning for Climate Change

URP 6526: Health and the Built Environment

URP 6541: Economic Development Planning

URP 6542: Urban Land Economics

URP 6543: Seminar in Capital Improvement Finance

URP 6547: Local Public Finance for Urban Planners

URP 6601: State Planning

URP 6603: Development Review

URP 6610: International Development Planning

URP 6711: Transportation and Land Use Coordination

URP 6716: Transportation Policy and Planning

URP 6718: Bikeways Planning and Design

URP 6743: Affordable Housing Law

URP 6745: Housing, Public Policy, and Planning

URP 6746: Topical Debates in Housing

URP 6821: Transportation and Land-Use Modeling

URP 6855: Urban Form in Cities throughout the Americas

URP 6871: Planning and Design I

URP 6872: Planning and Design II

URP 6880: Defensible Space and CPTED in Urban Design

URP 6884: Community Conservation and Revitalization

URP 6887: Advanced Defensible Space in Urban Design

URP 6905: Exploration and Directed Study

URP 6910: Supervised Research

URP 6920: Colloquium

URP 6931: Topical Seminar

URP 6933: Planning Information Seminar

URP 6940: Supervised Teaching

URP 6941: Urban Planning Internship

URP 6971: Research for Master's Thesis

URP 6979: Terminal Project

VIC 5315: Corporate and Brand Identity on the Web

VIC 5325: Digital Imagery in Web Design

VIC 5326: Digital Media Layout and Design

VIC 6316: Brand Management

VME 5162C: Avian Diseases

VME 5244: Physiology: Organ Systems

VME 6008: Care of Aquatic Megavertebrates

VME 6010: Aquatic Animal Conservation Issues

VME 6011: Introduction to Aquatic Wildlife Health Issues

VME 6017: Manatee Health & Conservation

VME 6051: Cruelty to Animals and Interpersonal Violence

VME 6052: Animal Crime Scene Processing

VME 6054: Scientific and Legal Principles of Forensic Evidence

VME 6056: Animal Law

VME 6076C: Andrology

VME 6135: Diseases of Laboratory Animals I

VME 6136: Diseases of Laboratory Animals II

VME 6186: Advanced Topics in Disease Pathogenesis

VME 6421: Biology and Molecular Biology of Avian Viruses

VME 6430C: Contemporary Issues in Small Animal Surgery

VME 6464: Molecular Pathogenesis

VME 6505: Autoimmunity

VME 6570: Wildlife Conservation and Forensic Science

VME 6571: Forensic Applied Animal Behavior

VME 6572: Forensic Aspects of Agricultural Animal Welfare

VME 6573: Wildlife Forensic Genetics

VME 6575: Veterinary Forensic Medicine

VME 6576: Veterinary Forensic Pathology

VME 6577: Veterinary Forensic Pathology in Practice

VME 6578: Forensic Veterinary Osteology

VME 6579: Veterinary Forensic Radiology and Imaging

VME 6602: General Toxicology

VME 6603: Advanced Toxicology

VME 6604: Literature Survey in Toxicology

VME 6605: Toxic Substances

VME 6606: Ecological Risk Assessment

VME 6607: Human Health Risk Assessment

VME 6613: Forensic Toxicology I

VME 6614: Forensic Toxicology II

VME 6615: Veterinary Forensic Toxicology

VME 6650: Principles of Mammalian Pharmacology

VME 6766: Laboratory Quality Assurance/Quality Control

VME 6767: Issues in the Responsible Conduct of Research

VME 6771: Veterinary Epidemiologic Research

VME 6810: Integrating Veterinary Medicine with Shelter Systems

VME 6811: Shelter Animal Physical Health

VME 6812: Shelter Animal Behavior and Welfare

VME 6905: Problems in Veterinary Medical Sciences

VME 6910: Supervised Research

VME 6931: Seminar in Veterinary Medical Sciences

VME 6932: Seminar in Physiological Sciences

VME 6933: Seminar in Infectious Diseases and Experimental Pathology

VME 6934: Topics in Veterinary Medical Sciences

VME 6936: Seminar in Pathophysiology

VME 6938: Topics in Aquatic Animal Health

VME 6940: Supervised Teaching

VME 6971: Research for Master's Thesis

VME 7979: Advanced Research

VME 7980: Research for Doctoral Dissertation

WS 5323C: Impact of Diseases on Wildlife Population

WS 5496: Research Design in Wildlife Ecology

WS 5521: Plant-Animal Interactions

WS 5555C: Conservation Biology

WS 6444: Advanced Wetlands Ecology

WS 6455: Wildlife Population Ecology

WS 6466: Wildlife Population Modeling

WS 6468C: Pattern and Process in Landscape Ecology

WS 6525: Environmental Interpretation

WS 6543: Wildlife and Agriculture

WS 6544: Administration in Natural Resources

WS 6575: Mammalian Carnivores: Conservation and Management Issues

WS 6578: Human Dimensions of Biological Conservation

WS 6905: Research Problems in Wildlife and Range Sciences

WS 6910: Supervised Research

WS 6933: Seminar

WS 6934: Topics in Wildlife and Range Sciences

WS 6940: Supervised Teaching

WS 6971: Research for Master's Thesis

WS 7979: Advanced Research

WS 7980: Research for Doctoral Dissertation

WST 5933: Proseminar in Women's Studies

WST 6348: Ecofeminism

WST 6508: Advanced Feminist Theory

WST 6905: Independent Study

WST 6935: Special Topics in Women's Studies

WST 6936: Feminist Challenges to Disciplinary Paradigms

WST 6946: Internship in Applied Women's Studies and Gender Research

WST 6957: International Studies in Women's Studies and Gender Research

WST 6971: Research for Master's Thesis

ZOO 5115C: Vertebrate Paleontology

ZOO 5486C: Mammalogy

ZOO 6005: Integrative Principles of Zoology I

ZOO 6308: Dynamic Optimization Modeling in Behavioral and Evolutionary Ecology

ZOO 6406: Biology of Sea Turtles

ZOO 6456C: Ichthyology

ZOO 6542: Nutritional Ecology

ZOO 6905: Individual Studies

ZOO 6910: Supervised Research

ZOO 6920: Zoology Colloquium

ZOO 6927: Special Topics in Zoology

ZOO 6931: Seminar in Marine Turtle Biology

ZOO 6939: Seminar in Animal Behavior

ZOO 6971: Research for Master's Thesis

ZOO 7979: Advanced Research

ZOO 7980: Research for Doctoral Dissertation

Courses by Discipline

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

AOM 5334C: Agricultural Chemical Application Technology

AOM 5431: GIS and Remote Sensing in Agriculture and Natural Resources

AOM 5435: Advanced Precision Agriculture

AOM 6905: Individual Work in Agricultural Operations Management

AOM 6932: Special Topics in Agricultural Operations Management**Agricultural and Biological Engineering Department**[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

ABE 5015: Empirical Models of Crop Growth and Yield Response**ABE 5038: Recent Developments and Applications in Biosensors****ABE 5152: Electro-Hydraulic Circuits and Controls****ABE 5332: Advanced Agricultural Structures****ABE 5442: Advanced Agricultural Process Engineering****ABE 5643C: Biological Systems Modeling****ABE 5646: Biological and Agricultural Systems Simulation****ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials****ABE 5663: Advanced Applied Microbial Biotechnology****ABE 5707C: Agricultural Waste Management****ABE 5815C: Food and Bioprocess Engineering Design****ABE 6005: Applied Control for Automation and Robots****ABE 6031: Instrumentation in Agricultural Engineering Research****ABE 6035: Advanced Remote Sensing: Science and Sensors**

ABE 6037C: Remote Sensing in Hydrology

ABE 6252: Advanced Soil and Water Management Engineering

ABE 6254: Simulation of Agricultural Watershed Systems

ABE 6265: Vadose Zone Modeling

ABE 6266: Nanotechnology in Water Research

ABE 6615: Advanced Heat and Mass Transfer in Biological Systems

ABE 6644: Agricultural Decision Systems

ABE 6816: Food and Bioprocess Sterilization

ABE 6905: Individual Work in Agricultural and Biological Engineering

ABE 6910: Supervised Research

ABE 6931: Seminar

ABE 6933: Special Topics in Agricultural and Biological Engineering

ABE 6940: Supervised Teaching

ABE 6971: Research for Master's Thesis

ABE 6972: Research for Engineer's Thesis

ABE 6974: Nonthesis Project

ABE 6986: Applied Mathematics in Agricultural and Biological Engineering

ABE 7979: Advanced Research

ABE 7980: Research for Doctoral Dissertation

CWR 6536: Stochastic Subsurface Hydrology

PKG 5003: Advanced Distribution and Transport Packaging

PKG 5006: Advanced Packaging Principles

PKG 5105: Advanced Consumer Products Packaging

PKG 5206C: Advanced Package Decoration

PKG 5256C: Advanced Analytical Packaging Methods

PKG 6100: Advanced Computer Tools for Packaging

PKG 6905: Individual Work in Packaging

PKG 6932: Special Topics in Packaging Sciences

Agricultural Education and Communication Department

Chair: E. W. Osborne

Graduate Coordinator: B. E. Myers

Complete faculty listing by department: [Follow this link.](#)

The Department of Agricultural Education and Communication offers the degrees of Master of Science and Doctor of Philosophy. Graduate students who obtain a degree in Agricultural Education and Communication will focus their study in one of four areas of specialization. The areas of specialization are agricultural communication, agricultural education, extension education, and leadership development. These degree programs are individually tailored to meet the student's unique needs for professional development. The requirements for each degree are

described in the [Graduate Degrees](#) section of the University of Florida Graduate Catalog. More information about our program can be found by following the link below.

AEC 5032: Agricultural Media Writing

AEC 5037: Agricultural Media Production

AEC 5060: Public Opinion and Agricultural and Natural Resource Issues

AEC 5074: Agriculture, Resources, People, and the Environment: A Global Perspective

AEC 5201: Teaching in Colleges of Agricultural and Life Sciences

AEC 5203: Advanced Teaching in Colleges of Agricultural and Life Sciences

AEC 5206: Teaching Methods in Agricultural Education

AEC 5227: Teaching in Agricultural Education Laboratory Facilities

AEC 5302: Professional Skill Development in Agriscience Education I

AEC 5324: Philosophy and Development of Agricultural Education

AEC 5454: Leadership Development for Extension and Community Nonprofit Organizations

AEC 5501: Professional Skill Development in Agriscience Education II

AEC 5541: Communication and Instructional Technologies in Agricultural and Life Sciences

AEC 5544: Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies

AEC 5545: Special Methods in Teaching Agriculture

AEC 5546: Program Planning in Agricultural Education

AEC 6205: Advanced Curriculum and Teaching Methods

AEC 6210: Designing Educational Programs in Agricultural Settings

AEC 6211: Delivering Educational Programs in Agricultural Settings

AEC 6212: Teacher Education in Agriculture

AEC 6229: Laboratory Instruction: Theory and Practice

AEC 6300: Methodology of Planned Change

AEC 6316: From America to Zimbabwe: An Overview of International Extension Systems

AEC 6321: The Land Grant University and University Governance

AEC 6325: History and Philosophy of Agricultural Education

AEC 6419: Communication and Competencies for Global Leadership

AEC 6426: Development of a Volunteer Leadership Program

AEC 6512: Program Development in Extension Education

AEC 6540: Agricultural and Natural Resources Communications Theory and Strategies

AEC 6543: Teaching and Learning Theory: Applications in Agricultural Education

AEC 6552: Evaluating Programs in Extension Education

AEC 6611: Agricultural and Extension Adult Education

AEC 6704: Extension Administration and Supervision

AEC 6767: Research Strategies in Agricultural Education and Communication

AEC 6905: Problems in Agricultural and Extension Education

AEC 6910: Supervised Research

AEC 6912: Nonthesis Research in Agricultural and Extension Education

AEC 6933: Seminar in Agricultural Education and Communication

AEC 6940: Supervised Teaching

AEC 6945: Practicum in Agricultural Education and Communication

AEC 6947: Experiential Learning in Agricultural Education

AEC 6971: Research for Master's Thesis

AEC 7979: Advanced Research

AEC 7980: Research for Doctoral Dissertation

AGG 5504: Critical and Creative Thinking in Problem Solving and Decision Making

Agronomy Department

Chair: R. A. Gilbert

Graduate Coordinator: L. E. Sollenberger

Complete faculty listing by department: [Follow this link.](#)

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis options) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agricultural and natural ecosystems in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

AGR 5215C: Integrated Field Crop Science

AGR 5230C: Florida Grassland Agroecosystems

AGR 5266C: Field Plot Techniques

AGR 5277C: Tropical Crop Production

AGR 5307: Molecular Genetics for Crop Improvement

AGR 5321C: Genetic Improvement of Plants

AGR 5444: Ecophysiology of Crop Production

AGR 5511: Crop Ecology

AGR 6233: Tropical Grassland Agroecosystems

AGR 6237C: Research Techniques in Forage Evaluation

AGR 6311: Population Genetics

AGR 6322: Advanced Plant Breeding

AGR 6325L: Plant Breeding Techniques

AGR 6353: Cytogenetics

AGR 6422C: Environmental Crop Nutrition

AGR 6442C: Physiology of Agronomic Plants

AGR 6905: Agronomic Problems

AGR 6910: Supervised Research

AGR 6932: Topics in Agronomy

AGR 6933: Graduate Agronomy Seminar

AGR 6940: Supervised Teaching

AGR 6971: Research for Master's Thesis

AGR 7979: Advanced Research

AGR 7980: Research for Doctoral Dissertation

IPM 5305: Principles of Pesticides

PLS 5632C: Integrated Weed Management

PLS 5652: Advanced Weed Science

PLS 6623: Weed Ecology

PLS 6626: Invasive Plant Ecology

PLS 6655: Plant/Herbicide Interaction

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

ANS 5446: Animal Nutrition

ANS 6313: Current Concepts in Reproductive Biology

ANS 6718: Nutritional Physiology of Domestic Animals

ANS 6751: Physiology of Reproduction

PCB 5235: Immunology

PCB 5615: Molecular Evolution and Systematics

STA 6934: Special Topics in Statistics

ZOO 6927: Special Topics in Zoology

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Animal Molecular and Cellular Biology Department

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Animal Sciences Department

Chair: G. E. Dahl

Graduate Coordinator: G. Adesogan

Complete faculty listing by department: [Follow this link.](#)

Animal Sciences is an academic department of the [College of Agriculture and Life Sciences \(CALS\)](#), a unit of the [Institute of Food and Agricultural Sciences \(IFAS\)](#). Creating new solutions to tomorrow's problems underlies everything we do in the Animal Sciences Program. In the areas of teaching, research, and extension, our faculty integrates the most modern technologies available with personal expertise and attention to the needs of students and our industry. For more information about the Animal Sciences program, please follow the link below.

ANS 5312C: Applied Ruminant Reproductive Management

ANS 5935: Reproductive Biology Seminar and Research Studies

ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research

ANS 6314: Experimental Embryology

ANS 6447: Ruminant Nutrition

ANS 6449: Vitamins

ANS 6452: Principles of Forage Quality Evaluation

ANS 6458: Advanced Methods in Nutrition Technology

ANS 6636: Meat Technology

ANS 6666L: Molecular and Cellular Research Methods

ANS 6702: Lactation Physiology of Farm Animals

ANS 6704: Mammalian Endocrinology

ANS 6705: Muscle Physiology

ANS 6707: Growth Physiology in Farm Animals

ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology

ANS 6715: Gastrointestinal and Feed Microbiology

ANS 6716: Physiology in Farm Animals

ANS 6723: Mineral Nutrition and Metabolism

ANS 6745: Introduction to Statistical Genetics

ANS 6750: Reproductive Physiology in Farm Animals

ANS 6767: Molecular Endocrinology

ANS 6775: Essentials of Livestock Immunology

ANS 6905: Problems in Animal Science

ANS 6910: Supervised Research

ANS 6932: Special Topics in Animal Science

ANS 6933: Graduate Seminar in Animal Science

ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology

ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy

ANS 6940: Supervised Teaching

ANS 6971: Research for Master's Thesis

ANS 7979: Advanced Research

ANS 7980: Research for Doctoral Dissertation

PCB 6816: Thermal Physiology

Anthropology Department

Chair: S. deFrance

Graduate Coordinator: P. Collings

Complete faculty listing by department: [Follow this link.](#)

The Anthropology Department takes pride in maintaining a holistic perspective, bridging the four traditional fields that have composed the discipline: sociocultural, archaeological, biological, and linguistic anthropology. Both graduate students and faculty conduct research that cut across the four-fields, and extend anthropological investigations into other disciplines.

The graduate program is a mentoring program emphasizing the PhD degree. Students are mentored by faculty advisors, together with supervisory committees chosen by students with the advice of advisors. Graduate students are expected to be in residence to attend classes and seminars, and receive individualized training. Distance-education graduate degrees are not offered. Students formally report on their progress each year, and the progress of each graduate student is evaluated by the faculty in their primary field.

Students receiving graduate degrees are well-prepared intellectually and professionally for success in a wide variety of careers, and become leaders in developing the next generation of anthropology. The department offers teaching experience and resources for presenting conference papers, submitting grant proposals, conducting fieldwork, and other activities appropriate to their professionalization. Graduate students are welcome to contribute to discussions in departmental meetings, and serve on some departmental committees.

ANG 5012: Fantastic Anthropology and Fringe Science

ANG 5085: Collection and Analysis of Visual Data in Anthropology

ANG 5126: Zooarcheology

ANG 5158: Florida Archeology

ANG 5162: Maya Archeoastronomy and Ethnoastronomy

ANG 5164: The Inca and Their Ancestors

ANG 5172: Historical Archeology

ANG 5194: Principles of Archeology

ANG 5255: Rural Peoples in the Modern World

ANG 5265: Methods in Ethnoecology

ANG 5266: Economic Anthropology

ANG 5303: Women and Development

ANG 5310: The North American Indian

ANG 5323: Peoples of Mexico and Central America

ANG 5327: Maya and Aztec Civilizations

ANG 5330: The Tribal Peoples of Lowland South America

ANG 5331: Peoples of the Andes

ANG 5336: The Peoples of Brazil

ANG 5341: Anthropology of the Caribbean

ANG 5352: Peoples of Africa

ANG 5354: Anthropology of Modern Africa

ANG 5395: Visual Anthropology

ANG 5420: Social Network Analysis in Cultural Anthropology

ANG 5426: Kinship and Social Organization

ANG 5464: Culture and Aging

ANG 5485: Research Design in Anthropology

ANG 5486: Computing for Anthropologists

ANG 5488: Geospatial Analysis in Cultural Anthropology

ANG 5525: Human Osteology and Osteometry

ANG 5531: Culture and Nutrition

ANG 5546: Seminar: Human Biology and Behavior

ANG 5620: Language and Culture

ANG 5621: Proseminar in Cultural and Linguistic Anthropology

ANG 5700: Applied Anthropology

ANG 5702: Anthropology and Development

ANG 5711: Culture and International Business

ANG 5743: Human Rights Missions in Forensic Anthropology

ANG 5744: International Forensic Fieldwork in Human Rights

ANG 5824L: Field Sessions in Archeology

ANG 6034: Seminar in Anthropological History and Theory

ANG 6086: Historical Ecology

ANG 6091: Research Strategies in Anthropology

ANG 6110: Archaeological Theory

ANG 6112: Critical Archaeology of Time

ANG 6113: Ideology and Symbolic Approaches in Archaeology

ANG 6120C: Environmental Archaeology

ANG 6122C: Archaeological Ceramics

ANG 6128: Lithic Technology

ANG 6146: Archaeology of Maritime Adaptations

ANG 6155: Southeastern U.S. Prehistory

ANG 6161: Problems in Caribbean Prehistory

ANG 6165: Problems in South American Archaeology

ANG 6183: Laboratory Training in Archeology

ANG 6185: Ethnoarchaeology

ANG 6186: Seminar in Archeology

ANG 6187: Experimental Archaeology

ANG 6190: Seminar in Contemporary Methods

ANG 6191: Archaeology of Death

ANG 6224: Painted Books of Ancient Mexico: Codices of Aztecs, Mixtecs, and Mayas

ANG 6241: Special Topics in Ecology of Religion

ANG 6267: Anthropology, Geographic Information System, and Human Ecosystems

ANG 6273: Legal Anthropology

ANG 6274: Principles of Political Anthropology

ANG 6286: Seminar in Contemporary Theory

ANG 6304: Seminar in Gender and International Development

ANG 6314: Peoples of the Arctic

ANG 6351: Peoples and Culture in Southern Africa

ANG 6360: Ethnicity in China

ANG 6366: Family, Gender, and Population in China

ANG 6407: Sickness and Power

ANG 6421: Landscape, Place, Dwelling

ANG 6452: Race and Racism in Anthropological Theory

ANG 6453: Human Rights in Cross-Cultural Perspective

ANG 6478: Evolution of Culture

ANG 6481: Research Methods in Cognitive Anthropology

ANG 6483L: Anthropology of Science

ANG 6511: Seminar in Physical Anthropology

ANG 6514: Human Origins

ANG 6524: Skeletal Mechanics in Biological Anthropology

ANG 6532: Molecular Genetics of Disease

ANG 6547: Human Adaptation

ANG 6552: Primate Behavior

ANG 6553: Primate Cognition

ANG 6555: Issues in Evolutionary Anthropology

ANG 6583: Primate Functional Morphology

ANG 6591L: Advanced Molecular Anthropology Laboratory

ANG 6592: Seminar in Molecular Anthropology

ANG 6593L: Biological Anthropology Laboratory

ANG 6701: Seminar on Applied Anthropology

ANG 6737: Medical Anthropology

ANG 6740: Advanced Techniques in Forensic Anthropology

ANG 6801: Ethnographic Field Methods

ANG 6905: Individual Work

ANG 6910: Supervised Research

ANG 6915: Research Projects in Social, Cultural, and Applied Anthropology

ANG 6917: Professions of Anthropology

ANG 6930: Special Topics in Anthropology

ANG 6940: Supervised Teaching

ANG 6945: Internship in Anthropology

ANG 6971: Research for Master's Thesis

ANG 7979: Advanced Research

ANG 7980: Research for Doctoral Dissertation

Applied Physiology and Kinesiology Department

Chair: S. Dodd

Graduate Coordinator: E. Christou

Complete faculty listing by department: [Follow this link.](#)

The **Ph.D. program** is offered with concentrations in biobehavioral science and exercise physiology. Students in the biobehavioral science concentration specialize in one of four areas: biomechanics, exercise / performance psychology, motor control / learning, or sports medicine. These interdisciplinary concentrations focus on preparing students as researchers with a blend of course work and research training.

A program leading to the **Master of Science** degree in applied physiology and kinesiology (thesis and non-thesis options) is also offered. Areas of concentration for the master's program include athletic training/sports medicine, biobehavioral science, clinical exercise physiology, exercise physiology, and human performance. The thesis option gives the student an opportunity to study, conduct research, and prepare a thesis in an area of special interest. The non-thesis option offers the student a specialization in a selected area of study, with additional work in other areas. A comprehensive written examination is required for this option, as is a capstone internship experience. Requirements for these degrees are given in the *General Information* section of this catalog.

Athletic training/sports medicine: This concentration provides comprehensive academic preparation, research, and clinical experience in the areas of injury prevention, assessment,

treatment, rehabilitation, and therapeutic modalities.

Biobehavioral Science: This thesis mandatory concentration is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in one of several related disciplines: biomechanics, motor control and learning, and exercise and performance psychology. Each area of specialization is briefly described below.

- *Biomechanics:* The specialization in biomechanics draws from the fields of neuroscience, engineering, and medicine. The course work and training include kinematics and kinetics of movement. Course work also includes anatomy/kinesiology, biomechanics, engineering neuroscience, medicine, psychology, physical therapy, and statistics.
- *Motor learning / control:* This interdisciplinary specialization draws on experiences and a knowledge base in the movement and sport sciences, cognitive sciences, and physical therapy. Students are prepared to conduct research and provide expertise in traditional motor performance and learning settings.
- *Exercise / performance psychology:* This area of specialization provides the basis for understanding and influencing the underlying thought processes and attitudes that will ultimately determine the performance of individuals involved in sport, exercise, and other achievement oriented activities. The primary emphasis is to develop the scientific background and skills necessary for doctoral training and research.

Clinical exercise physiology: The purpose of this non-thesis program is to give students the opportunity to develop advanced knowledge and competencies in Exercise Physiology. Clinical Exercise Physiologists typically practice in hospitals, clinics and wellness centers as part of a health care team that administers tests and develops programs of exercise, counseling, and education for patients with cardiopulmonary, metabolic, and musculoskeletal diseases.

Exercise physiology: This thesis mandatory area of concentration is concerned with the scientific study of how the various physiological systems of the human body respond to physical activity. It is a multidisciplinary field with strong ties to the basic life sciences and medicine, and application to clinical, normal, and athletic populations.

Human performance: This non-thesis master's concentration merges a range of specializations within the Department into a curriculum that provides educational experiences to graduate students interested in studying the factors that determine human performance in both athletic and nonathletic domains. This flexible approach allows students to focus on specific applications that best meet their individual interests. Human performance incorporates components such as nutrition, psychology, motor behavior, and physiology that are applicable to athletic and clinical populations.

APK 5127: Assessment in Exercise Science

APK 5404: Sport Psychology

APK 6111L: Practicum in Exercise Physiology

APK 6116C: Physiological Bases of Exercise and Sport Sciences

APK 6118: Neuromuscular Adaptation to Exercise

APK 6126: Cardiopulmonary Pathologies

APK 6128: EKG Interpretation

APK 6205C: Nature and Bases of Motor Performance

APK 6206: Planning Motor Actions

APK 6210: Controlling Motor Actions

APK 6225: Biomechanical Instrumentation

APK 6226C: Biomechanics of Human Motion

APK 6406: Exercise Psychology

APK 6408: Performance Enhancement

APK 6410: Seminar in Exercise Psychology

APK 6415: Seminar in Sport Psychology: Current Topics

APK 6900: Directed Independent Study

APK 6940: Advanced Practicum in Exercise and Sport Science

APK 7107: Cardiovascular Exercise Physiology

APK 7108: Environmental Stress Exercise Physiology

APK 7117: Exercise Metabolism

APK 7124: Free Radicals in Aging, Exercise and Disease

APK 7129: Pulmonary Function during Exercise

ATR 6124: Clinical Anatomy for the Exercise Sciences

ATR 6145: Human Pathophysiology for the Exercise Sciences

ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity

ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity

ATR 6304: Rehabilitation and Modalities of Athletic Injuries

ATR 6624: Athletic Training Research and Technology I

ATR 6625: Athletic Training Research and Technology II

ATR 6934: Seminar in Athletic Training

HLP 6515: Evaluation Procedures in Health and Human Performance

HLP 6911: Research Seminar

HLP 6935: Variable International Topics

PET 5936: Special Topics/Seminars

PET 6910: Supervised Research

PET 6940: Supervised Teaching

PET 6947: Graduate Internship in Exercise and Sport Sciences

PET 6971: Research for Master's Thesis

Astronomy Department

Chair: C. Telesco

Graduate Coordinator: V. Sarajedini.

Complete faculty listing by department: [Follow this link.](#)

The University of Florida's Astronomy Department is one of the largest in the country. Research is an integral part of the graduate program. Students have opportunities to work with faculty and staff on a broad range of astronomical problems using in-house, national and international, and ground- and space-based facilities. Support for graduate studies is available through fellowships, research assistantships, and teaching assistantships. For more information on the program, please follow the link below or visit [our website](#).

AST 5113: Solar System Astrophysics I

AST 5114: Solar System Astrophysics II

AST 6112: Solar System Astrophysics

AST 6215: Stellar Structure and Function

AST 6245: Stellar Atmospheres and Radiative Processes

AST 6309: Galactic and Extragalactic Astronomy

AST 6336: Interstellar Matter

AST 6415: Observational Cosmology

AST 6416: Physical Cosmology

AST 6506: Celestial Mechanics

AST 6725C: Observational Techniques

AST 6905: Individual Work

AST 6910: Supervised Research

AST 6925: Departmental Colloquium

AST 6935: Frontiers in Astronomy

AST 6936: Astronomy Journal Club

AST 6971: Research for Master's Thesis

AST 7939: Special Topics

AST 7979: Advanced Research

AST 7980: Research for Doctoral Dissertation

Behavioral Science and Community Health Department

Chair: B. Curbow

Complete faculty listing by department: [Follow this link.](#)

The Department of Behavioral Science & Community Health (BSCH) is one of nine academic departments housed in the School of Public Health and Health Professions at the University of Florida. This department offers a Doctor of Philosophy (PhD) degree (SBS track). For more information about the program, please visit the link below.

GEY 5935: Topics in Gerontology

GEY 6220: Overview of Geriatric Care Management

GEY 6646: Issues and Concepts in Gerontology

GEY 6905: Independent Study in Gerontology

GEY 6936: Professional Development in Gerontology/Geriatrics

PHC 6195: Health information for Diverse Populations: Theory & Methods

PHC 6316: Health, Risk, and Crisis Communication

PHC 6607: Critical Issues in Public Health

PHC 7587: Theory Development and Testing in Behavioral & Community Public Health

PHC 7752: Seminar in Instrument Development for Public Health

PHC 7907: Social and Behavioral Science Journal Club

RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling

RCS 6066: Rehabilitation Issues in Human Growth and Development

RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling

RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling

RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling

RCS 6412: Rehabilitation Counseling Theory and Practice

RCS 6470: Human Sexuality and Disability

RCS 6601: Forensic Rehabilitation Consultation I

RCS 6602: Forensic Rehabilitation Consultation II

RCS 6625: Community Counseling and Case Management

RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling

RCS 6740: Rehabilitation Research

RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation

RCS 6801: Rehabilitation Counseling Practicum

RCS 6825: Internship in Rehabilitation Counseling

RCS 6905: Individual Work

RCS 6910: Supervised Research

RCS 6931: Special Topics

RCS 6940: Supervised Teaching

RCS 6945: Advanced Rehabilitation Counseling Practicum

RCS 6971: Research for Master's Degree

Biochemistry and Molecular Biology Department

Chair: James B. Flanagan.

Graduate Coordinator: Kevin Brown

Complete faculty listing by department: [Follow this link.](#)

Biochemistry and Molecular Biology Department faculty mentor Ph.D. students in the College of Medicine interdisciplinary program (IDP) in medical sciences. Students interested in pursuing a doctoral degree can view specific features of the biochemistry and molecular biology concentration at <http://biochem.med.ufl.edu/> and <http://idp.med.ufl.edu>. For admission information, visit the IDP website. Department faculty also mentor Ph.D. students in other college programs and participate actively in the research and teaching functions of various centers such as the Center for Epigenetics and the Center for Structural Biology. The Department offers a wide variety of courses for graduate students studying in the life sciences. The research expertise of the faculty spans the areas from cell biology, metabolism, and molecular biology to physical biochemistry/structural biology. Current research interests include viral protease inhibitors, viral RNA replication, bioenergetics and proton translocation, X-chromosome structure and function, cytoskeletal assembly and dynamics, enzyme mechanism and control, chromatin structure, gene expression and regulation, mitochondrial biogenesis and evolution, the genetics of inherited disease, nutrient membrane transporters, protein site-directed mutagenesis, ribosome structure and function, signal transduction, structural biology and dynamics of macromolecules, protein-nucleic acid interactions, transgenic animal models, and virus crystal structure. Prospective graduate students should have adequate training in chemistry and biology. Minor deficiencies may be made up immediately after entering graduate school. Previous undergraduate experience in a research laboratory is highly recommended. Doctoral students are required to take a core IDP course in fall term of their first year; and beginning in spring term, students take advanced classes in areas of interest. Specific advanced-level courses may be recommended by the student's supervisory chair and committee. The following courses are open to all graduate students and advanced undergraduates. Additional courses are listed in the Advanced Concentration in Biochemistry and Molecular Biology section under Medical Sciences.

BCH 5413: Mammalian Molecular Biology and Genetics

BCH 6040: Research Discussion in Biochemistry and Molecular Biology

BCH 6107: Biophysical Techniques in Proteomics and Protein Science

BCH 6206: Advanced Metabolism

BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control

BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism

BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism

BCH 6415: Advanced Molecular and Cell Biology

BCH 6740: Physical Biochemistry/Structural Biology

BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems

BCH 6744: Molecular Structure Determination by X-ray Crystallography

BCH 6744L: Molecular Structure Determination by X-Ray Crystallography Laboratory

BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy

BCH 6745L: Molecular Structure and Dynamics by NMR Spectroscopy Laboratory

BCH 6746: Structural Biology: Macromolecular Structure Determination

BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics

BCH 6749C: Numerical Methods in Structural Biology

BCH 6875: Crystallography and Cryo-Electron Microscopy

BCH 6876: Recent Advances in Membrane Biology

BCH 6877: Recent Advances in Structural Biology

BCH 6878: Recent Advances in Cytoskeletal Processes

BCH 6905: Independent Studies in Biochemistry and Molecular Biology

BCH 6910: Supervised Research

BCH 6936: Biochemistry Seminar

BCH 6971: Research for Master's Thesis

BCH 7410: Advanced Gene Regulation

BCH 7412: Epigenetics of Human Disease and Development

BCH 7414: Advanced Chromatin Structure

BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics

BCH 7979: Advanced Research

BCH 7980: BioChem Doctoral Research

GMS 6195: Epigenetics Journal Club

Biology Department

[College of Liberal Arts and Sciences](#)

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

Complete faculty listing by department: [Follow this link.](#)

The Department of Biology offers two graduate programs: Botany and Zoology. Both programs offer graduate work leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

More information regarding these programs is available by following the links below and by visiting our departmental website: <http://www.biology.ufl.edu>.

BOT 5225C: Plant Anatomy

BOT 5305: Paleobotany

BOT 5505C: Intermediate Plant Physiology

BOT 5625: Plant Geography

BOT 5655C: Physiological Plant Ecology

BOT 5685C: Tropical Botany

BOT 5695C: Ecosystems of Florida

BOT 5725C: Taxonomy of Vascular Plants

BOT 6508C: Proteomics Theory and Practice

BOT 6516: Plant Metabolism

BOT 6566: Plant Growth and Development

BOT 6716C: Advanced Taxonomy

BOT 6726C: Principles of Systematic Biology

BOT 6905: Individual Studies in Botany

BOT 6910: Supervised Research

BOT 6927: Advances in Botany

BOT 6935: Special Topics

BOT 6936: Graduate Student Seminar

BOT 6940: Supervised Teaching

BOT 6943: Internship in College Teaching

BOT 6971: Research for Master's Thesis

BOT 7979: Advanced Research

BOT 7980: Research for Doctoral Dissertation

PCB 5046C: Advanced Ecology

PCB 5307C: Limnology

PCB 5338: Principles of Ecosystem Ecology

PCB 5356: Tropical Ecology

PCB 5415C: Behavioral Ecology

PCB 6049: Seminar in Ecology

PCB 6377C: Physiological Ecology of Vertebrates

PCB 6447C: Community Ecology

PCB 6675C: Evolutionary Biogeography

PCB 6695: Seminar in Evolutionary Biology

ZOO 5115C: Vertebrate Paleontology

ZOO 5486C: Mammalogy

ZOO 6005: Integrative Principles of Zoology I

ZOO 6308: Dynamic Optimization Modeling in Behavioral and Evolutionary Ecology

ZOO 6406: Biology of Sea Turtles

ZOO 6456C: Ichthyology

ZOO 6542: Nutritional Ecology

ZOO 6905: Individual Studies

ZOO 6910: Supervised Research

ZOO 6920: Zoology Colloquium

ZOO 6931: Seminar in Marine Turtle Biology

ZOO 6939: Seminar in Animal Behavior

ZOO 6971: Research for Master's Thesis

ZOO 7979: Advanced Research

ZOO 7980: Research for Doctoral Dissertation

Biomedical Engineering Department

Chair: C. Schmidt

Graduate Coordinator: D. Hintenlang

Complete faculty listing by department: [Follow this link.](#)

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine. The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research. The BME Department currently focuses in: neural engineering, biomaterials, tissue engineering, biomechanics, nanomedicine, biomedical imaging and medical physics. A concentration in Medical Physics is available at both the M.S. and Ph.D. level and prepares students for clinical or research careers in medical imaging or radiation therapy. The Medical Physics concentration is fully accredited by CAMPEP. Additional information on admissions requirements, faculty, and research projects is available at: <http://www.bme.ufl.edu>.

BME graduate students are admitted directly through the BME Department. The BME Graduate Academic Committee reviews and makes all decisions regarding admission. Each student's research adviser must hold a Graduate Faculty appointment in the BME Department. Supervisory committees for BME students normally include at least one member from the College of Engineering and one from the College of Medicine to emphasize the need for a clinical focus in the research.

BME 5052L: Biomedical Engineering Laboratory

BME 5085: Patents, Product Development, and Technology Transfer

BME 5401: Biomedical Engineering and Physiology I

BME 5407: Molecular Biomedical Engineering

BME 5500: Biomedical Instrumentation

BME 5703: Statistical Methods for Biomedical Engineering

BME 5937: Special Topics

BME 6010: Clinical Preceptorship

BME 6324: Stem Cell Engineering

BME 6330: Cell and Tissue Engineering

BME 6360: Neural Engineering

BME 6502: Introduction to Medical Imaging

BME 6505: Advanced Diagnostic Radiological Physics

BME 6522: Biomedical Multivariate Signal Processing

BME 6533: Radiologic Anatomy**BME 6534: Advanced Therapeutic Radiological Physics****BME 6535: Radiological Physics, Measurements and Dosimetry****BME 6590: Medical Physics****BME 6591: Therapeutic Radiological Physics I****BME 6592: Therapeutic Radiological Physics II****BME 6593: Therapeutic Radiological Physics III****BME 6705: Mathematical Modeling of Biological and Physiological Systems****BME 6905: Individual Work in Biomedical Engineering****BME 6907: BME Project****BME 6910: Supervised Research****BME 6936: Biomedical Engineering Seminar****BME 6938: Special Topics in Biomedical Engineering****BME 6940: Supervised Teaching****BME 6971: Research for Master's Thesis****BME 7979: Advanced Research****BME 7980: Research for Doctoral Dissertation****Biostatistics Department**

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Interim Chair: Samuel Wu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

PHC 6020: Clinical Trial Methods

PHC 6050C: Biostatistical Methods I

PHC 6051: Biostatistical Methods II

PHC 6053: Regression Methods for the Health and Life Sciences

PHC 6055: Biostatistical Computing Using R

PHC 6063: Biostatistical Consulting

PHC 6080: SAS for Public Health - Data

PHC 6081: SAS for Public Health - Analysis

PHC 7013: Bias in Observational Research

PHC 7056: Analysis of Longitudinal Data

PHC 7066: Large Sample Theory

PHC 7925: Biostatistics Journal Club

STA 5223: Applied Sample Survey Methods

STA 5328: Fundamentals of Statistical Theory

STA 5503: Categorical Data Methods

STA 5701: Applied Multivariate Methods

STA 5715: Applied Survival Analysis

STA 6092: Applied Statistical Practice

STA 6166: Statistical Methods in Research I

STA 7249: Generalized Linear Models

STA 7346: Statistical Inference

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: P. Qiu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

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All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields

- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/curriculum-overview/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/ms-curriculum-overview/>.

GMS 6818: Design and Conduct Clinical Trials I

GMS 6861: Applied Biostatistics I

GMS 6862: Applied Biostatistics II

GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data

Chemical Engineering Department

Chair: R. Dickinson.

Graduate Coordinator: A. Chauhan.

Complete faculty listing by department: [Follow this link](#).

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering.

BME 6221: Biomolecular Cell Mechanics

BME 6322: Dynamics of Cellular Processes

BME 6644: Pharmacokinetics

ECH 5708: Disinfection, Sterilization, and Preservation

ECH 5938: Topics in Colloid Science

ECH 6126: Thermodynamics of Reaction and Phase Equilibria

ECH 6270: Continuum Basis of Chemical Engineering

ECH 6272: Molecular Basis of Chemical Engineering

ECH 6285: Transport Phenomena

ECH 6326: Computer Control of Processes

ECH 6506: Chemical Engineering Kinetics

ECH 6526: Reactor Design and Optimization

ECH 6709: Electrochemical Engineering Fundamentals and Design

ECH 6726: Interfacial Phenomena I

ECH 6727: Interfacial Phenomena II

ECH 6843: Experimental Basis of Chemical Engineering

ECH 6847: Mathematical Basis of Chemical Engineering

ECH 6851: Impedance Spectroscopy

ECH 6905: Individual Work

ECH 6910: Supervised Research

ECH 6926: Graduate Seminar

ECH 6937: Topics in Chemical Engineering I

ECH 6939: Topics in Chemical Engineering III

ECH 6940: Supervised Teaching

ECH 6971: Research for Master's Thesis

ECH 7938: Advanced Special Chemical Engineering Topics for Doctoral Candidates

ECH 7979: Advanced Research

ECH 7980: Research for Doctoral Dissertation

Chemistry Department

Chair: W. Dolbier

Graduate Coordinator: B. W. Smith

Complete faculty listing: [Follow this link.](#)

The Department of Chemistry granted its first master's degree in 1909 and the first Ph.D. in 1930. Specializations in biochemistry, organic, physical, inorganic and analytical are offered with extensive interdisciplinary research opportunities (e.g., bio/nano-science, particle science, green chemistry, polymer chemistry, chemical physics, health related biochemistry, chemistry-engineering, and genomics).

The Department presently offers the Master of Science and Doctor of Philosophy degrees with a major in chemistry. The non-thesis Master of Science in Teaching degree is also offered with a major in chemistry.

CHM 5224: Basic Principles for Organic Chemistry

CHM 5235: Organic Spectroscopy

CHM 5275: The Organic Chemistry of Polymers

CHM 5305: Chemistry of Biological Molecules

CHM 5413L: Advanced Physical Chemistry Laboratory

CHM 5511: Physical Chemistry of Polymers

CHM 6036: Chemical Biology

CHM 6037: Chemical Biology and Biochemistry Seminar

CHM 6153: Electrochemical Processes

CHM 6154: Chemical Separations

CHM 6155: Spectrochemical Methods

CHM 6158C: Electronics and Instrumentation

CHM 6159: Mass Spectrometric Methods

CHM 6165: Chemometrics

CHM 6180: Special Topics in Analytical Chemistry

CHM 6190: Analytical Chemistry Seminar

CHM 6225: Advanced Principles of Organic Chemistry

CHM 6226: Advanced Synthetic Organic Chemistry

CHM 6227: Topics in Synthetic Organic Chemistry

CHM 6251: Organometallic Compounds

CHM 6271: The Chemistry of High Polymers

CHM 6301: Enzyme Mechanisms

CHM 6302: Chemistry and Biology of Nucleic Acids

CHM 6303: Methods in Computational Biochemistry and Structural Biology

CHM 6306: Special Topics in Biological Chemistry Mechanisms

CHM 6381: Special Topics in Organic Chemistry

CHM 6390: Organic Chemistry Seminar Presentation

CHM 6391: Organic Chemistry Seminar Discussion

CHM 6430: Chemical Thermodynamics

CHM 6461: Statistical Thermodynamics

CHM 6470: Chemical Bonding and Spectra I

CHM 6471: Chemical Bonding and Spectra II

CHM 6480: Elements of Quantum Chemistry

CHM 6490: Theory of Molecular Spectroscopy

CHM 6520: Chemical Physics

CHM 6580: Special Topics in Physical Chemistry

CHM 6586: Computational Chemistry

CHM 6590: Physical Chemistry Seminar

CHM 6620: Advanced Inorganic Chemistry I

CHM 6621: Advanced Inorganic Chemistry II

CHM 6626: Applications of Physical Methods in Inorganic Chemistry

CHM 6628: Chemistry of Solid Materials

CHM 6670: Inorganic Biochemistry

CHM 6680: Special Topics in Inorganic Chemistry

CHM 6690: Inorganic Chemistry Seminar

CHM 6720: Chemical Dynamics

CHM 6905: Individual Problems, Advanced

CHM 6910: Supervised Research

CHM 6934: Advanced Topics in Chemistry

CHM 6935: Chemistry Colloquium

CHM 6943: Internship in College Teaching

CHM 6971: Research for Master's Thesis

CHM 7485: Special Topics in Theory of Atomic and Molecular Structure

CHM 7979: Advanced Research

CHM 7980: Research for Doctoral Dissertation

CHS 5110L: Radiochemistry Laboratory

Civil and Coastal Engineering Department

Chair: K. Hatfield

Graduate Coordinator: A. Drescher

Complete faculty listing by department: [Follow this link.](#)

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in [CGN 6974](#) for civil engineering majors, or [EOC 6905](#) for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

CCE 5035: Construction Planning and Scheduling

CCE 5405: Construction Equipment and Procedures

CCE 6037: Civil Engineering Operations I

CCE 6038: Innovative Construction Techniques

CCE 6505: Computer Applications in Construction Engineering

CCE 6507: Computer Applications in Construction Engineering II

CCE 6516: Topics in Airborne Laser Mapping Technology

CEG 5105: Geotechnical Engineering

CEG 5114: Advanced Geotechnical Aspects of Landfill Design

CEG 5115: Foundation Design

CEG 5205C: Insitu Measurement of Soil Properties

CEG 5206: Geosensing I

CEG 5805: Ground Modification Design

CEG 6015: Advanced Soil Mechanics

CEG 6116: Advanced Shallow Foundation Design

CEG 6117: Advanced Deep Foundation Design

CEG 6201: Experimental Determination of Soil Properties

CEG 6207: Geosensing II

CEG 6405: Seepage in Soils

CEG 6505: Numerical Methods of Geomechanics

CEG 6515: Earth Retaining Systems and Slope Stability

CES 5010: Probabilistic and Stochastic Methods in Civil Engineering

CES 5116: Finite Elements in Civil Engineering

CES 5325: Design of Highway Bridges

CES 5606: Topics in Steel Design

CES 5607: Behavior of Steel Structures

CES 5715: Prestressed Concrete

CES 5726: Design of Concrete Systems

CES 5801: Design and Construction in Timber

CES 5835: Design of Reinforced Masonry Structures

CES 6106: Advanced Structural Analysis

CES 6108: Structural Dynamics

CES 6165: Computer Methods in Structural Engineering

CES 6551: Design of Folded Plates and Shells

CES 6571: Design of Temporary Structures

CES 6585: Wind Engineering

CES 6588: Protective Structures

CES 6590: Impact Engineering

CES 6591: Applied Protective Structures

CES 6592: Retrofit Protective Structures

CES 6593: Advanced Protective Structures

CES 6706: Advanced Reinforced Concrete

CES 6855: Condition Assessment of Structures

CGN 5125: Legal Aspects of Civil Engineering

CGN 5315: Civil Engineering Systems

CGN 5605: Public Works Planning

CGN 5606: Public Works Management

CGN 5715: Experimentation and Instrumentation in Civil Engineering Materials Research

CGN 6150: Engineering Project Management

CGN 6155: Civil Engineering Practice I

CGN 6156: Construction Engineering II

CGN 6505: Properties, Design and Control of Concrete

CGN 6506: Bituminous Materials

CGN 6525: Sustainable Materials

CGN 6905: Special Problems in Civil Engineering

CGN 6910: Supervised Research

CGN 6936: Civil Engineering Graduate Seminar

CGN 6940: Supervised Teaching

CGN 6971: Research for Master's Thesis

CGN 6972: Research for Engineer's Thesis

CGN 6974: Master of Engineering or Engineer Degree Report

CGN 7979: Advanced Research

CGN 7980: Research for Doctoral Dissertation

CWR 5125: Groundwater Flow I

CWR 5127: Evaluation of Groundwater Quality

CWR 5235: Open Channel Hydraulics

CWR 6115: Surface Hydrology

CWR 6126: Variable-Density Groundwater Flow

CWR 6236: Sediment Transport I

CWR 6240: Mixing and Transport in Turbulent Flow

CWR 6255: Diffusive and Dispersive Transport

CWR 6525: Groundwater Flow II

CWR 6537: Contaminant Subsurface Hydrology

EOC 5860: Port and Harbor Engineering

EOC 6196: Littoral Processes

EOC 6430: Coastal Structures

EOC 6850: Numerical Simulation Techniques in Coastal and Ocean Engineering

EOC 6905: Individual Study in Coastal and Oceanographic Engineering

EOC 6932: Selected Field and Laboratory Problems

EOC 6934: Advanced Topics in Coastal and Oceanographic Engineering

EOC 6939: Graduate Seminar

EOC 6971: Research for Master's Thesis

EOC 6972: Research for Engineer's Thesis

EOC 7979: Advanced Research

EOC 7980: Research for Doctoral Dissertation

OCP 5293: Coastal Processes

OCP 6050: Physical Oceanography

OCP 6165: Ocean Waves I: Linear Theory

OCP 6165L: Ocean Waves Laboratory

OCP 6167: Ocean Waves II: Nonlinear Theory

OCP 6168: Data Analysis Techniques for Coastal and Ocean Engineers

OCP 6169: Random Sea Analysis

OCP 6295: Estuarine and Shelf Hydrodynamics I

OCP 6297: Coastal and Estuarine Sediment Transport

OCP 6298: Coastal Sediment Transport Processes

TTE 5006: Advanced Urban Transportation Planning

TTE 5256: Traffic Engineering

TTE 5305: Advanced Transportation Systems Analysis

TTE 5805: Geometric Design of Transportation Facilities

TTE 5835: Pavement Design

TTE 5837: Pavement Management Systems

TTE 6205: Freeway Operations and Simulation

TTE 6207: Advanced Highway Capacity Analysis

TTE 6259: Urban Streets Simulation and Control

TTE 6267: Traffic Flow Theory

TTE 6306: Computational Methods in Transportation Engineering

TTE 6315: Highway Safety Analysis

TTE 6505: Discrete Choice Analysis

TTE 6606: Urban Transportation Models

Classics Department

Chair: Victoria Pagán.

Graduate Coordinator: Jennifer Rea.

Complete faculty listing: [Follow this link.](#)

The department offers the following degrees and programs: the Doctor of Philosophy in classical studies; the Master of Arts degree in classical studies or Latin; the Master of Latin degree, and the Master of Arts in Teaching degree in Latin. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Within the Ph.D. program are three tracks:

- Philology (prepares students for careers in colleges and universities)
- Classical civilization (available via distance course work)
- Latin and Roman studies (available via distance course work).

Requirements for the philology track of the doctoral degree include:

- 60 credit hours after the M.A. (or a total of 90 credit hours)
- Five additional seminars after the M.A. in classics at the 500 level or higher
- Three of the following seminars: [GRE 6425](#), [GRW 6105](#), [LAT 6425](#), [LNU 6105](#), and [CLA 6805](#)
- A reading knowledge of two modern languages, one of which must be German
- Reading lists in Greek and Roman authors
- Supervised experience in teaching Latin, Greek, or civilization courses is advised
- Successful completion of a series of qualifying examinations appropriate to the chosen specialization (Greek reading; Latin reading; classical Greek literature in its historical context; classical Latin literature in its historical context; special author/topic)
- An oral preliminary examination, dissertation, and final examination

The M.A. degree in classical studies is recommended for students who plan to continue on to the doctoral level. The M.A. degree in Latin is recommended for students who plan to pursue a career in secondary teaching. Both M.A. programs require 30 credit hours, including 6 credits of [GRW 6971](#) or [LNU 6971](#), a thesis, and final examination.

The Master of Latin degree is a non-thesis degree, designed for currently employed and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of classics, and enhance their professional qualifications through a program of summer course work and directed independent study and/or distance learning courses during the regular academic year. The Master of Arts in Teaching, a non-thesis degree, is offered with a program in Latin and is intended for students preparing to teach in community colleges or high schools.

CLA 6125: Augustan Age

CLA 6515: Roman Dynasty: Nero and the Julio-Claudians

CLA 6795: Greek and Roman Archeology

CLA 6805: The Classical Research Tradition

CLA 6885: Roman Law and Society

CLA 6895: Athenian Law and Society

CLA 6905: Individual Work

CLA 6930: Greece and the Near East

CLT 6295: Greek Drama in Translation

GRE 6425: Greek Prose Composition

GRE 6755: Epigraphy

GRK 6905: Individual Work in Modern Greek

GRW 6105: The Greek Tradition

GRW 6216: Greek Novel

GRW 6316: Greek Tragedy

GRW 6317: Ancient Greek Comedy

GRW 6345: Greek Lyric Poetry

GRW 6346: Pindar

GRW 6347: Homer

GRW 6386: Greek Historians

GRW 6506: Plato

GRW 6705: Attic Orators

GRW 6905: Individual Work

GRW 6930: Special Topics in Greek Literature

GRW 6931: Comparative Study of Greek and Latin Literature

GRW 6971: Research for Master's Thesis

GRW 7979: Advanced Research

GRW 7980: Research for Doctoral Dissertation

LAT 6425: Latin Prose Composition

LNW 5325: Roman Elegiac Poetry

LNW 5655: Roman Poets: Horace

LNW 5665: Roman Poets: Vergil

LNW 5675: Roman Poets: Ovid

LNW 5931: Comparative Study of Latin and Greek Literature

LNW 6105: The Roman Tradition

LNW 6225: The Ancient Roman Novel

LNW 6335: Roman Oratory and Rhetoric

LNW 6365: Studies in Roman Satire

LNW 6385: Roman Historians

LNW 6495: Late Latin Literature

LNW 6905: Individual Work

LNW 6933: Special Topics in Latin Literature

LNW 6935: Proseminar in Classics

LNW 6940: Supervised Teaching

LNW 6971: Research for Master's Thesis

LNW 7979: Advanced Research

LNW 7980: Research for Doctoral Dissertation

Clinical and Health Psychology Department

[College of Public Health and Health Professions](#)

Department Chair: William W. Latimer.

Graduate Coordinator: S.R. Boggs.

Complete faculty listing: [Follow this link.](#)

The Department of Clinical and Health Psychology is a unit of the College of Public Health and Health Professions. The department's programs are its doctoral clinical psychology studies leading to the Ph.D. degree in psychology; an American Psychological Association accredited doctoral internship program; and postdoctoral studies and research. Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

The clinical psychology doctoral curriculum adheres to the scientist-practitioner model of education and training. Program strengths include research, education, and professional training in health care psychology, with organized areas of concentration in clinical health psychology, clinical child/pediatric psychology, neuropsychology, neurorehabilitation and clinical neuroscience, and emotion neuroscience/psychopathology. Education and training experiences are also available in rural psychology. Interested students can apply for acceptance into the Public Health

Program and obtain dual M.P.H./Ph.D. degrees.

Progress in the program is determined by departmental policies which are consistent with American Psychological Association accreditation standards. The curriculum has been continuously accredited by the American Psychological Association since 1953.

Admission to the Department is through appropriate application to the Department's admission committee. A bachelor's degree is generally adequate preparation for graduate admission. It should include undergraduate courses in both experimental psychology and statistics, along with at least three courses from the following psychology areas: developmental, learning, perception, personality, physiological, and social.

For more information, please see the program page below and our website: <http://chp.phhp.ufl.edu>.

CLP 5316: Health Psychology

CLP 5426: Introduction to Neuropsychology

CLP 6304: Psychological Foundations of Clinical Psychology I

CLP 6307: Human Higher Cortical Functioning

CLP 6308: Psychological Foundations of Clinical Psychology II

CLP 6309: Psychological Foundations of Clinical Psychology III

CLP 6344C: Lifespan Foundations of Behavioral Health and Illness I

CLP 6345: Lifespan Foundations of Behavioral Health and Illness II

CLP 6375: Introduction to Clinical Psychology

CLP 6407: Psychological Treatment I

CLP 6417: Psychological Treatment II

CLP 6425: Seminar in Clinical Neuropsychology

CLP 6430: Clinical Psychological Assessment

CLP 6434C: Clinical Psychology Assessment I

CLP 6435C: Clinical Psychology Assessment II

CLP 6446C: Psychological Assessment of Children

CLP 6447C: Psychological Assessment of Adults

CLP 6476: Lifespan Psychopathology

CLP 6497: Psychopathological Disturbances

CLP 6527C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology I

CLP 6528C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology II

CLP 6529: Applied Multivariate Methods in Psychology

CLP 6905: Individual Work

CLP 6910: Supervised Research

CLP 6940: Supervised Teaching

CLP 6943: Core Practicum in Clinical Psychology

CLP 6945: Advanced Practicum in Neuropsychology

CLP 6946: Advanced Practicum in Applied Medical Psychology

CLP 6947: Practicum in Intervention

CLP 6948: Advanced Practicum in Clinical Child Psychology

CLP 6971: Research for Master's Thesis

CLP 7317: Advanced Health Psychology and Behavior Medicine

CLP 7404C: Special Issues, Methods, and Techniques in Psychological Treatment

CLP 7427C: Neuropsychological Assessment of Children

CLP 7428C: Neuropsychological Assessment of Adults

CLP 7934: Special Topics In Clinical Psychology

CLP 7949: Internship

CLP 7979: Advanced Research

CLP 7980: Research for Doctoral Dissertation

DEP 6216: Psychological Disturbances of Children

GEY 6306: Interpersonal Communication Within the Aging Network

GEY 7408: Psychotherapy with Older Adults

Comparative Law Department

Director and Graduate Coordinator: P.A. Malavet.

Complete faculty listing by department: [Follow this link.](#)

The LL.M. in Comparative Law degree is designed for graduates of foreign law schools who want to enhance their understanding of the American legal system and the English common law system from which it evolved. Requirements for this degree are given in the *General Information* section of this catalog.

The program begins with Introduction to American Law, a 4-credit summer course that gives students a foundation in the American legal process. It also helps students acclimate to the College of Law and the University community before to the start of the academic year. During the fall and spring terms, and with the director's approval, students choose their remaining 22 credits from more than 100 Juris Doctor and LL.M. in Taxation courses and seminars. For admission information consult the *College of Law Prospectus* or write to the Comparative Law Office P.O. Box 117643, University of Florida, Gainesville, FL 32611-7643 USA.

LAW 7801: Introduction to the Legal System of the United States for LL.M. in Comparative Law, Part II

LAW 7805: Legal Writing and Research for LL.M. in Comparative Law

LAW 7906: Directed Research for LL.M. in Comparative Law

LAW 7932: Introduction to the Legal System of the United States for LLM in Comparative Law, Part I

Computer and Information Science and Engineering Department

[College of Liberal Arts and Sciences](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir.

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, Engineer, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software

- engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Computer and Information Science and Engineering Department

[College of Engineering](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

CAP 5100: Human-Computer Interaction

CAP 5416: Computer Vision

CAP 5510: Bioinformatics

CAP 5515: Computational Molecular Biology

CAP 5635: Artificial Intelligence Concepts

CAP 5705: Computer Graphics

CAP 5805: Computer Simulation Concepts

CAP 6137: Malware Reverse Engineering

CAP 6402: Aesthetic Computing

CAP 6516: Medical Image Analysis

CAP 6610: Machine Learning

CAP 6615: Neural Networks for Computing

CAP 6617: Advanced Machine Learning

CAP 6685: Expert Systems

CAP 6701: Advanced Computer Graphics

CDA 5155: Computer Architecture Principles

CDA 5636: Embedded Systems

CDA 6156: High Performance Computer Architecture

CEN 5035: Software Engineering

CEN 6070: Software Testing and Verification

CEN 6075: Software Specification

CIS 6905: Individual Study

CIS 6910: Supervised Research

CIS 6930: Special Topics in CIS

CIS 6935: Graduate Seminar

CIS 6940: Supervised Teaching

CIS 6971: Research for Master's Thesis

CIS 7979: Advanced Research

CIS 7980: Research for Doctoral Dissertation

CNT 5106C: Computer Networks

CNT 5410: Computer and Network Security

CNT 5412: Network and System Security

CNT 5517: Mobile Computing

CNT 6107: Advanced Computer Networks

CNT 6885: Distributed Multimedia Systems

COP 5536: Advanced Data Structures

COP 5555: Programming Language Principles

COP 5615: Distributed Operating System Principles

COP 5618: Concurrent Programming

COP 5625: Programming Language Translators

COP 5725: Database Management Systems

COP 6726: Database System Implementation

COP 6755: Distributed Database Systems

COT 5405: Analysis of Algorithms

COT 5442: Approximation Algorithms

COT 5519: Sparse Matrix Algorithms

COT 5520: Computational Geometry

COT 5615: Mathematics for Intelligent Systems

COT 6315: Formal Languages and Computation Theory

Dental Sciences Department

[College of Dentistry](#)

Endodontics Chair and Graduate Coordinator: Roberta Pileggi

Orthodontics Chair and Graduate Coordinator: Calogero Dolce

Periodontology Chair: Ikramuddin Aukhil; Graduate Coordinator: Rodrigo Neiva

Restorative Dental Sciences Interim Chair: William Willis; Graduate Coordinator: Edgar O'Neill

Complete faculty listing: [Follow this link.](#)

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1
The application deadline of Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402

Requirements for the M.S. degree are provided in the [Graduate Degrees](#) section of this catalog

For further information, see the Dental Science program link below.

DEN 6602: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 1: Class I Treatment

DEN 6603: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 2: Class II Treatment

DEN 6604: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 3: Class II Treatment and Overbite Treatments

DEN 6605: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 4: Class II Treatment and Overbite Treatments

DEN 6606: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 5: Class III and Crossbite Treatments and Soft Tissue Considerations

DEN 6607: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 6: Impactions, Transplantations and Stability

DEN 6608: Analysis, Diagnosis, and Treatment Planning: Part I

DEN 6609: Analysis, Diagnosis, and Treatment Planning: Part II

DEN 6610: Biology of Tooth Movement: Part I

DEN 6612: Orthodontic Biomechanics: Part I

DEN 6613: Orthodontic Biomechanics: Part II

DEN 6614: Ortho-Perio Relationships: Part I

DEN 6615: Ortho-Perio Relationships: Part II

DEN 6616: Orthognathic Surgery: Part I

DEN 6617: Orthognathic Surgery: Part II

DEN 6618: Postnatal Growth and Development

DEN 6622: Principles of Occlusion

DEN 6623: Maxillofacial Prosthetics

DEN 6624: Dental Implant Restoration

DEN 6625: Fixed Prosthodontic Ceramics

DEN 6626: Advanced Removable Partial Dentures

DEN 6627: Treatment Planning Seminar

DEN 6642: Introduction to Advanced Endodontics

DEN 6643: Treatment Planning/Cases Presentation

DEN 6644: Nonsurgical Endodontic Care I

DEN 6645: Nonsurgical Endodontic Care II

DEN 6646: Surgical Endodontics I

DEN 6647: Surgical Endodontics II

DEN 6652: Review of Periodontics Literature I

DEN 6653: Review of Periodontics Literature II

DEN 6654: Review of Periodontics Literature III

DEN 6655: Review of Periodontics Literature IV

DEN 6656: Introduction to Advanced Periodontology

DEN 6657: Periodontal Histology and Histopathology

DEN 6658: Treatment Planning in Periodontal Therapy

DEN 6670: Craniofacial Anomalies

DEN 6671: Prenatal Growth and Development

DEN 6672: Materials in Orthodontics

DEN 6674: Advanced Oral Pathology

DEN 6675: Craniofacial Pain

DEN 6678: Advanced Oral Medicine and Drug Interactions in Dentistry

DEN 6679: Advanced Radiology and Interpretation

DEN 6680: Principles and Craniofacial Biology and Emerging Therapies

DEN 6681: Craniofacial Pathobiology

DEN 6905: Individual Study

DEN 6910: Supervised Research

DEN 6934: Special Topics in Dentistry

DEN 6935: Special Topics in Dentistry

DEN 6936: Practice Management

DEN 6940: Supervised Teaching

DEN 6941: Clinical Teaching in Dentistry

DEN 6942: Grand Rounds

DEN 6971: Research for Master's Thesis

DEN 6973: Project in Lieu of Thesis

Department of Health Education & Behavior

Chair: Jalie A. Tucker

Graduate Coordinator: Christine B. Stopka

Complete faculty listing by department: [Follow this link.](#)

The Department of Health Education & Behavior offers a Doctor of Philosophy (Ph.D.) in Health and Human Performance with a concentration in Health Behavior, a non-thesis 30-credit hour Master of Science and a 36-credit Master of Science (M.S.) in Health Education and Behavior. Requirements for the Ph.D. and M.S. degrees are given in the *General Information* section of this catalog.

The Ph.D. degree program trains health behavior researchers for academic positions in federal health agencies such as the Centers for Disease Control and Prevention and the National Institutes of Health for postdoctoral research fellowships and for the private sector.

The 30-credit hour, non-thesis M.S. degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector. Full-time students can complete this M.S. option in one year. This degree may also give students unique and distinguishing training experiences when applying to professional schools such as law, medicine, physician assistant, dentistry, chiropractic, osteopathy, nursing, occupational therapy, and physical therapy.

The 36-credit hour project in lieu of thesis, and the 36-credit hour thesis options are designed for students interested in developing research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically can complete these options in about 4 semesters.

The Department also offers an accelerated B.S./M.S. program in health education and behavior to enable students to receive both B.S. and M.S. degrees with a reduction of 12 credits (about one semester of course work).

Students who complete a graduate degree program in the Department of Health Education & Behavior acquire a range of skills required to research, plan, implement, and evaluate health promotion policies and programs aimed at improving the health and well-being of individuals, families, and communities. Specific skills include:

- Conducting needs and capacity assessments to identify health priorities
- Planning, implementing, and evaluating health promotion policies and programs
- Conducting research on questions associated with health problems and their determinants and health promotion policies and programs
- Administering and managing health promotion programs
- Advocating for health promotion policies and programs in schools, communities, health care facilities, and worksites
- Developing social marketing and health communication messages and campaigns
- Researching and developing social media and new media-based health promotion applications
- Serving as a resource person for health information and referrals
- Using a variety of teaching-learning strategies appropriate to the target audience and setting
- Writing scholarly and professional articles
- Working collaboratively with public and private agencies, nongovernmental organizations (NGOs) and the private sector to achieve the goal of a healthier population.

This degree prepares the health promotion specialists and health behavior scientists to work in:

- Local, state, and federal health, education and social agencies
- Nongovernmental health organizations
- Schools and universities
- Healthcare settings
- Private sector

Sample position titles for individuals with this degree include:

- Health education specialist
- Health promotion specialist
- Public health adviser or public health analyst
- Health promotion coordinator or health promotion consultant
- Campus health educator or patient health educator,
- Health communication specialist
- Wellness specialist
- Wellness promotion coordinator
- Prevention specialist

For additional information, visit <http://www.hhp.ufl.edu/heb>.

HSC 5135: Emotional Health Education

HSC 5138: Human Sexuality

HSC 5142: Drug Education

HSC 5315C: Teaching Health in Elementary Schools

HSC 5536C: Medical Terminology for the Health Professions

HSC 5576: Nutrition Education for Special Populations

HSC 5606: Spirituality and Health

HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health

HSC 5626: Minority Health Issues

HSC 5657: Health and End-of-Life Issues

HSC 5925: Seminar in Health Education

HSC 5956: Writing for Professional Publications

HSC 6037: Philosophy and Principles of Health Education

HSC 6216: Environmental Health

HSC 6235: Patient Health Education

HSC 6318: Planning Health Education Programs

HSC 6506: Epidemiology

HSC 6567: Health Promotion and Programming in Gerontology

HSC 6571: Contemporary Issues in Health Promotion

HSC 6575: Women's Health Issues

HSC 6595: HIV/AIDS Education

HSC 6603: Theories of Health Behavior and Practice in Health Education

HSC 6605: Scientific Foundations of Holistic Health

HSC 6625: Trends in International Health

HSC 6629: Health Promotion for Priority Populations

HSC 6637: Social Marketing and Health

HSC 6646: Community Health Methods in Injury Prevention & Control

HSC 6665: Health Communication

HSC 6667: Health Communication Programs

HSC 6668: Interpersonal Communication and Health

HSC 6695: Worksite Health Promotion

HSC 6712: Evaluating Health Education Programs

HSC 6735: Research Methods in Health Education

HSC 6850: Internship in Health Education

HSC 6904: Readings in Health Education

HSC 6910: Supervised Research

HSC 6935: Current Topics in Health Education

HSC 6971: Research for Master's Thesis

HSC 6973: Project in Lieu of Thesis

HSC 7904: Advanced Readings in Health Education

HSC 7905: Advanced Independent Study in Health Education

HSC 7937: Advanced Seminar in Health Education

PEQ 5127: Advanced Instructors of Adapted Aquatics

PHC 6105: Health Promotion Policy and Practice

Department of Languages, Literatures and Cultures

Complete faculty listing by department: [Follow this link.](#)

FLE 6385: Foreign Languages Teaching Methods

FRE 6060: Beginning French for Graduate Students I

FRE 6061: Beginning French for Graduate Students II

FRE 6466: Advanced Translation and Stylistics

FRE 6735: Special Studies in French Linguistics

FRE 6736: The French language in the Americas

FRE 6785: French Phonetics and Phonology

FRE 6827: Sociolinguistics of French

FRE 6845: History of the French Language

FRE 6855: Structure of French

FRE 6856: French in the 21st Century

FRE 6940: Supervised Teaching

FRE 6943: Romance Language Teaching Methods

FRE 6945: Practicum in Advanced College Teaching

FRE 6956: Overseas Studies in French

FRW 6217: Seventeenth-Century French Prose

FRW 6276: Readings in Eighteenth-Century Literature

FRW 6288: Twentieth-Century French Novel

FRW 6315: Seventeenth-Century French Drama

FRW 6328: Twentieth-Century French Theater

FRW 6346: French Poetry of the Renaissance

FRW 6355: Modern French Poetry

FRW 6396: French Cinema

FRW 6416: Later French Medieval Literature

FRW 6536: The Romantic Period

FRW 6556: French Realism and Naturalism

FRW 6715: The Philosophic Movement

FRW 6780: Studies in Francophone Literature and Culture (Excluding the Caribbean and Sub-Saharan Africa)

FRW 6805: Introduction to Graduate Study and Research

FRW 6825: French Critical Theory

FRW 6900: Special Study in French Literature

FRW 6905: Individual Work

FRW 6910: Supervised Research

FRW 6938: Seminar in French Literature

FRW 6971: Research for Master's Thesis

FRW 7979: Advanced Research

FRW 7980: Research for Doctoral Dissertation

GER 6060: Beginning German for Graduate Students I

GER 6061: Beginning German for Graduate Students II

GER 6505: German Culture

GER 6940: Supervised Teaching

GET 6295: Weimar Cinema

GET 6299: New German Cinema and its Legacy

GEW 6205: Foundations of Literary Study

GEW 6266: History of the German Novel

GEW 6305: Studies in German Drama and Theater

GEW 6405: Medieval and Renaissance Literature

GEW 6425: From Luther to Lessing: Early Modern German Literature

GEW 6535: German Classical and Romantic Literature

GEW 6558: Young Germany, Biedermeier, Realism, and Naturalism

GEW 6725: Culture and Society in the Weimar Republic

GEW 6735: Modern German Literature

GEW 6736: Contemporary German Literature

GEW 6745: Literature and Culture in the Third Reich

GEW 6826: German Literary Theory

GEW 6900: Seminar in Germanic Languages and Literatures

GEW 6901: Special Study in Germanic Languages and Literatures

GEW 6905: Independent Study

GEW 6910: Supervised Research

GEW 6971: Research for Master's Thesis

GEW 7979: Advanced Research

GEW 7980: Research for Doctoral Dissertation

Digital Worlds Institute

[College of the Arts](#)

Director: James C. Oliverio

Graduate Coordinator: Marko Suvajdzic

Complete faculty listing: [Follow this link.](#)

The Digital Worlds Institute exists to nurture leading edge education between the arts, communications, engineering and the sciences, utilizing advanced media systems and digital culture. By bringing together the diverse talents of University of Florida faculty, students, and staff in a multifaceted collaborative environment, the Institute serves as a platform for interdisciplinary research and teaching that would not have occurred within the confines of any one college or department. Through the use of interactive tools and technologies, the Institute promotes transdisciplinary creativity across classrooms, continents and cultures.

For more information, please see the program page below and our website: <http://www.digitalworlds.ufl.edu>.

DIG 5555C: Digital Media Projection Design I

DIG 5931C: Special Topics

DIG 6027C: Interactive Storytelling

DIG 6028: Roots of Digital Culture

DIG 6050C: Entertainment Technology

DIG 6125C: Digital Design & Visualization

DIG 6126C: Interaction Design

DIG 6256C: Audio Design For Digital Production

DIG 6358C: APPLIED 3D MODELING

DIG 6556C: Digital Media Projection Design II

DIG 6589C: Digital Portfolio

DIG 6719: Videogame Theory and Analysis

DIG 6744C: Movement, Media and Machines

DIG 6751C: Protocols for Multimedia Interfaces

DIG 6788C: Digital Production & Game Design

DIG 6840C: Interdisciplinary Research Seminar in Digital Arts & Sciences

DIG 6850C: Digital Arts & Sciences Convergence

DIG 6906: Independent Study - Graduate Level

DIG 6950C: Digital Performance Production

DIG 6971: Research for Master's Thesis

DIG 6973: Capstone Project in Lieu of Thesis

Economics Department

Chair: R. D. Blair

Graduate Coordinator: S. M. Slutsky.

Complete faculty listing: [Follow this link.](#)

The department offers the Master of Arts (thesis and nonthesis option) and Doctor of Philosophy degrees in economics with specializations in econometrics, economic theory, industrial organization, international economics, monetary economics, and public finance.

M.A. requirements: A minimum of 36 credits of course work is required for the M.A. with and without thesis. A maximum of six credits of the research course [ECO 6971](#) may be included

for a master's degree with thesis. The following core courses are required: [ECO 7408](#) and [ECO 7404](#) or equivalent, [ECO 7415](#) or equivalent, [ECO 7115](#) , and [ECO 7206](#).

Ph.D. requirements: Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) an acceptable score on the GRE, and (c) for nonnative speakers of English, an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

All core courses must be completed in the first year. In addition, students must complete courses in three fields of specializations and pass qualifying examinations in two of those fields.

Complete descriptions of the minimum requirements for the M.A. and Ph.D. degrees are provided elsewhere in this catalog

ECO 5715: Open Economy Macroeconomics

ECO 6075: Economics/Consumer Education

ECO 6407: Game Theory and Competitive Strategy: Theory and Cases

ECO 6409: Game Theory Applied to Business Decisions

ECO 6716: International Macroeconomics

ECO 6906: Individual Work in Economics

ECO 6910: Supervised Research

ECO 6936: Special Topics

ECO 6940: Supervised Teaching

ECO 6957: International Studies in Economics

ECO 6971: Research for Master's Thesis

ECO 7113: Information Economics

ECO 7115: Microeconomic Theory

ECO 7118: Markets and Institutions

ECO 7119: Information, Incentives, and Agency Theory

ECO 7120: General Equilibrium and Welfare Economics

ECO 7206: Macroeconomic Theory I

ECO 7272: Economic Growth I

ECO 7404: Game Theory for Economists

ECO 7405: Mathematical Economics: Game Theory

ECO 7406: Dynamic Economics: Theory and Applications

ECO 7408: Mathematical Methods and Applications to Economics

ECO 7415: Statistical Methods in Economics

ECO 7424: Econometric Models and Methods

ECO 7426: Econometric Methods I

ECO 7427: Econometric Methods II

ECO 7452: Best Empirical Practices in Economics

ECO 7516: Tax Theory and Public Policy

ECO 7525: Welfare Economics and The Second Best

ECO 7534: Empirical Public Economics I

ECO 7535: Empirical Public Economics II

ECO 7536: Theoretical Public Economics

ECO 7706: Theory of International Trade

ECO 7707: International Economic Relations

ECO 7925: Research Skills Workshop

ECO 7938: Advanced Economics Seminar

ECO 7979: Advanced Research

ECO 7980: Research for Doctoral Dissertation

ECP 5415: Antitrust Policy and Managerial Decisions

ECP 5702: Managerial Economics

ECP 5705: Economics of Business Decisions

ECP 6407: Economics for Managing Information for Electronic Commerce

ECP 6417: Public Policy and Social Control

ECP 6701: Competitive Strategies in Expanding Markets

ECP 6708: Cases in Competitive Strategy

ECP 7407: Theory of Industrial Organization:Product Differentiation and Strategy

ECP 7408: Empirical Industrial Organization

ECP 7418: Economics of Regulation

ECP 7419: Current Research in Regulation

HSA 6436: Health Economics

Electrical and Computer Engineering Department

Chair: J. Harris.

Graduate Coordinators: G. Bosman, J. McNair

Complete faculty listing: [Follow this link.](#)

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For more information about our program, please visit the link below.

CNT 6805: Network Science and Applications

EEE 5317C: Introduction to Power Electronics

EEE 5320: Bipolar Analog IC Design

EEE 5322: VLSI Circuits and Technology

EEE 5364: Fundamentals of Data Converters

EEE 5400: Future of Microelectronics Technology

EEE 5405: Microelectronic Fabrication Technologies

EEE 5426: Introduction to Nanodevices

EEE 5502: Foundations of Digital Signal Processing

EEE 5544: Noise in Linear Systems

EEE 5556: Electronic Countermeasures

EEE 6287: Brain Machine Interface Engineering

EEE 6321: MOS Analog IC Design

EEE 6323: Advanced VLSI Design

EEE 6325: Computer Simulation of Integrated Circuits and Devices

EEE 6328C: Microwave IC Design

EEE 6374: Radio Frequency (RF) Integrated Circuits and Technologies

EEE 6382: Semiconductor Physical Electronics

EEE 6390: VLSI Device Design

EEE 6397: Semiconductor Device Theory I

EEE 6402: Nonclassical Si-Based Nanoscale CMOS Devices

EEE 6428: Computational Nanoelectronics

EEE 6431: Carbon Nanotubes

EEE 6460: Advanced Microsystem Technology

EEE 6465: Design of MEMS Transducers

EEE 6503: Digital Filtering

EEE 6504: Adaptive Signal Processing

EEE 6512: Image Processing and Computer Vision

EEE 6586: Automatic Speech Processing

EEL 5182: State Variable Methods in Linear Systems

EEL 5225: Principles of Micro-Electro-Mechanical Transducers

EEL 5400: Airborne Sensors and Instrumentation

EEL 5401: Airborne Laser Scanning: Data Processing and Analysis

EEL 5441: Fundamentals of Photonics

EEL 5462: Advanced Antenna Systems

EEL 5490: Lightning

EEL 5666C: Intelligent Machines Design Laboratory

EEL 5718: Computer Communications

EEL 5721: Reconfigurable Computing

EEL 5737: Principles of Computer System Design

EEL 5764: Computer Architecture

EEL 5840: Elements of Machine Intelligence

EEL 5905: Individual Work

EEL 5934: Special Topics in Electrical Engineering

EEL 6065: Electrical & Computer Engineering Technical Writing

EEL 6264: Advanced Electric Energy Systems I

EEL 6265: Advanced Electric Energy Systems II

EEL 6443: Integrated and Fiber Optics

EEL 6486: Electromagnetic Field Theory and Applications I

EEL 6487: Electromagnetic Field Theory and Applications II

EEL 6507: Queuing Theory and Data Communications

EEL 6509: Wireless Communication

EEL 6528: Digital Communications with Software-defined Radios

EEL 6532: Information Theory

EEL 6533: Statistical Decision Theory

EEL 6535: Digital Communications

EEL 6537: Spectral Estimation

EEL 6550: Error Correction Coding

EEL 6555: Signal Processing for Active Sensing

EEL 6588: Wireless Ad Hoc Networks

EEL 6591: Wireless Networks

EEL 6614: Modern Control Theory

EEL 6617: Linear Multivariable Control

EEL 6619: Robust Control Systems

EEL 6686: Embedded Systems Seminar

EEL 6706: Fault-Tolerant Computer Architecture

EEL 6763: Parallel Computer Architecture

EEL 6769: Hardware-Software Interactions: Nonnumeric Processing

EEL 6814: Neural Networks for Signal Processing

EEL 6825: Pattern Recognition and Intelligent Systems

EEL 6841: Machine Intelligence and Synthesis

EEL 6871: Autonomic Computing

EEL 6892: Virtual Computers

EEL 6905: Individual Work

EEL 6910: Supervised Research

EEL 6933: Electrical and Computer Engineering Graduate Seminar

EEL 6935: Special Topics in Electrical Engineering

EEL 6940: Supervised Teaching

EEL 6971: Research for Master's Thesis

EEL 6972: Research for Engineer's Thesis

EEL 7979: Advanced Research

EEL 7980: Research for Doctoral Dissertation

English Department

Chair: K. Kidd

Graduate Coordinator: S. I. Dobrin

Complete faculty listing by department: [Follow this link.](#)

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English, along with the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. For more information about our programs, please follow the hyperlinks below or visit our website: <http://www.english.ufl.edu/programs.html>.

AML 6017: Studies in American Literature Before 1900

AML 6027: Studies in 20th-Century American Literature

CRW 6130: Fiction Writing

CRW 6166: Studies in Literary Form

CRW 6331: Verse Writing

CRW 6906: Individual Work

ENC 5236: Advanced Business Writing for Accounting

ENC 6428: Digital English

ENG 6016: Psychological Approaches to Literature

ENG 6075: Literary Theory: Issues

ENG 6076: Literary Theory: Theorists

ENG 6077: Literary Theory: Forms

ENG 6137: The Language of Film

ENG 6138: Studies in the Movies

ENG 6906: Individual Work

ENG 6910: Supervised Research

ENG 6932: Film and Video Production

ENG 6971: Research for Master's Thesis

ENG 7939: Seminar in Variable Topics

ENG 7979: Advanced Research

ENG 7980: Research for Doctoral Dissertation

ENL 6206: Studies in Old English

ENL 6216: Studies in Middle English

ENL 6226: Studies in Renaissance Literature

ENL 6236: Studies in Restoration and 18th-Century Literature

ENL 6246: Studies in Romantic Literature

ENL 6256: Studies in Victorian Literature

ENL 6276: Studies in 20th-Century British Literature

LAE 6940: Supervised Teaching

LAE 6947: Writing Theories & Practices

LIT 5335: Approaches to Children's and Adolescent Literature

LIT 6037: Studies in Verse

LIT 6047: Studies in Drama

LIT 6236: Postcolonial Studies

LIT 6308: Studies in Comics and Animation

LIT 6309: Communications and Popular Culture

LIT 6327: Studies in Folklore

LIT 6357: African-Amer. or African Diaspora Lit./Cultures

LIT 6358: Theoretical Approaches to Black Cultural Studies

LIT 6855: Issues in Cultural Studies

LIT 6856: Cultural Studies: Interventions

LIT 6857: Cultural Studies: Movements

LIT 6934: Variable Topics

SPC 6239: Studies in Rhetorical Theory

Entomology and Nematology Department

[College of Agricultural and Life Sciences](#)

Chair: John L. Capinera.

Graduate Coordinator: Heather J. McAuslane.

Complete faculty listing by department: [Follow this link.](#)

The Entomology and Nematology Department offers the Master of Science (thesis and nonthesis options) and Doctor of Philosophy degrees in entomology and nematology with the following specializations: entomology, nematology, and pest management. Minimum requirements for the M.S. and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

The Department also offers a cooperative Doctor of Philosophy degree with Florida A&M University and distance education courses leading to the M.S. degree. Members of the Graduate Faculty include the department resident faculty, faculty located on University of Florida campuses away from Gainesville, scientists with other State of Florida agencies such as the Division of Plant Industry and Florida Department of Agriculture and Consumer Services, and scientists of the U.S. Department of Agriculture. The Graduate Faculty is qualified to direct graduate students in all specialties of entomology, nematology, and acarology.

New graduate students should have backgrounds in biology, chemistry, physics, and mathematics. Minor deficiencies may be made up after entering graduate school.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please see the program page below, and visit our website: <http://entnemdept.ufl.edu>.

ALS 5156: Agricultural Ecology Principles and Applications

ALS 6166: Exotic Species and Biosecurity Issues

ALS 6935: Topics in Biological Invasions

ENY 5006: Graduate Survey of Entomology

ENY 5006L: Graduate Survey of Entomology Laboratory

ENY 5031C: Insect Field Biology

ENY 5151C: Techniques in Insect Systematics

ENY 5160C: Survey of Science with Insects

ENY 5164: Graduate Survey of Invertebrate Field Biology

ENY 5212: Insects and Wildlife

ENY 5223C: Biology and Identification of Urban Pests

ENY 5226C: Principles of Urban Pest Management

ENY 5236: Insect Pest and Vector Management

ENY 5241: Biological Control

ENY 5245: Agricultural Acarology

ENY 5332: Graduate Survey of Urban Vertebrate Pest Management

ENY 5405: Insects as Vectors of Plant Pathogens

ENY 5516: Turf and Ornamental Entomology

ENY 5566: Tropical Entomology

ENY 5567: Tropical Entomology Field Laboratory

ENY 5572: Advanced Apiculture

ENY 5611: Immature Insects

ENY 5820: Insect Molecular Genetics

ENY 6166: Insect Classification

ENY 6203: Insect Ecology

ENY 6203L: Insect Ecology Laboratory

ENY 6248: Termite Biology and Control

ENY 6401: Insect Physiology

ENY 6401L: Insect Physiology Laboratory

ENY 6454: Behavioral Ecology and Systematics of Insects

ENY 6591C: Advanced Mosquito Identification

ENY 6593: Advanced Mosquito Biology

ENY 6651C: Insect Toxicology

ENY 6665: Advanced Medical and Veterinary Entomology I

ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory

ENY 6706: Forensic Entomology

ENY 6706L: Forensic Entomology Laboratory

ENY 6821: Insect Microbiology

ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens

ENY 6905: Problems in Entomology

ENY 6910: Supervised Research

ENY 6931: Entomology Seminar

ENY 6932: Special Topics in Entomology

ENY 6934: Selected Studies in Entomology

ENY 6940: Supervised Teaching

ENY 6942: Insect Diagnostics

ENY 6943: Entomology Internship

ENY 6944: Entomology Extension Internship

ENY 6971: Research for Master's Thesis

ENY 7979: Advanced Research

ENY 7980: Research for Doctoral Dissertation

NEM 5004C: Graduate Survey of Nematology

NEM 5707C: Plant Nematology

NEM 6101C: Nematode Morphology and Anatomy

NEM 6102: Nematode Systematics and Molecular Phylogeny

NEM 6102L: Nematode Systematics and Molecular Phylogeny Laboratory

NEM 6103: Insect Parasitic Nematodes

NEM 6104L: Insect Parasitic Nematodes Laboratory

NEM 6201: Nematode Ecology

NEM 6708: Field Plant Nematology

NEM 6905: Problems in Nematology

NEM 6931: Nematology Seminar

NEM 6932: Special Topics in Nematology

NEM 6934: Selected Studies in Nematology

NEM 6940: Supervised Teaching

NEM 6942: Nematode Diagnostics

NEM 6943: Nematode Internship

NEM 6944: Nematode Extension Internship

NEM 6971: Research for Master's Thesis

NEM 7979: Advanced Research

NEM 7980: Research for Doctoral Dissertation

PMA 5205: Citrus Pest Management

PMA 6228: Field Techniques in Integrated Pest Management

Environmental and Global Health Department

Chair: G. C. Gray

Graduate Studies Program Assistant: N. Burke

Faculty listing: [Follow this link](#)

The Department of Environmental and Global Health focuses upon environmental factors that impact human health. Department faculty, scientists, and students employ numerous disciplines in studying these environmental factors: virology, bacteriology, parasitology, entomology, toxicology, epidemiology, water sciences, veterinary health, environmental engineering, aerosol biology, wildlife health, etc. Research work often involves international travel and collaboration. A central theme for the department is the interdisciplinary thinking called [One Health](#) which reflects the collaborations necessary to tackle public health's most difficult problems. Faculty, students and staff often perform research in the laboratories in the [Emerging Pathogens Institute](#), the [Center for Environmental and Human Toxicology](#), or the [Aquatic Pathobiology Laboratory](#).

The Department of Environmental and Global Health offers graduate work leading to the degrees of Doctor of Philosophy, Master of Health Science, and Master of Public Health.

PHC 6006: An Introduction to One Health Problem Solving

PHC 6722: Environmental and Global Health Research Methods Rotation

PHC 6900: Environmental and Global Health Journal Club

PHC 6947: Occupational Health Field Research Experience

Environmental and Land Use Law Department

Director and Graduate Coordinator: Christine A. Klein

Complete faculty listing by department: [Follow this link](#).

Florida's sensitive, varied and beautiful natural environment makes the University of Florida a natural choice for students who want to focus on the national and global issues of land use and environmental law. Florida provides a perfect setting to study first-hand the efforts to reconcile growth and conservation.

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

For more information, please see the program page below and our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>.

LAW 7493: LL.M. Research: Selected Topics in Environmental & Land Use Law

LAW 7916: Research Methods and Environmental Land Use Law**Environmental Engineering Sciences Department**

Director: K. Hatfield

Graduate Coordinator: P. Chadik

Complete faculty listing [Follow this link.](#)

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering; Systems Ecology and Ecological Engineering and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas. Please visit the link below for more information about our program in Environmental Engineering Sciences.

CWR 6116: Advanced Surface Hydrology**CWR 6252: Environmental Biochemistry of Trace Metals****EES 5105: Advanced Wastewater Microbiology****EES 5107: Ecological and Biological Systems****EES 5207: Environmental Chemistry****EES 5245: Water Quality Analysis****EES 5305C: Ecological and General Systems****EES 5306: Energy Analysis****EES 5307: Ecological Engineering****EES 5315: Ecology and the Environment****EES 5415: Environmental Health****EES 6007: Advanced Energy and Environment****EES 6009: Ecological Economics****EES 6026C: Environmental Systems Dynamics****EES 6028: Spatial Modeling Using Geographic Information Systems****EES 6051: Advanced Environmental Planning and Design****EES 6135: Aquatic Microbiology****EES 6136: Aquatic Autotrophs****EES 6137: Aquatic Heterotrophs****EES 6140: Biology of Exotic Species****EES 6208: Principles of Water Chemistry I****EES 6209: Principles of Water Chemistry II****EES 6225: Atmospheric Chemistry****EES 6246: Advanced Water Analysis****EES 6301: Comparative Approaches in Systems Ecology****EES 6308C: Wetland Ecology**

EES 6309: Wetland Treatment Systems

EES 6318: Principles of Industrial Ecology

EES 6335: Springs Ecosystems

EES 6356: Estuarine Systems

EES 6371: Environmental Meteorology and Oceanography

EES 6405: Environmental Toxicology

ENV 5072: Pollution Control and Prevention

ENV 5075: Environmental Policy

ENV 5105: Foundations of Air Pollution

ENV 5305: Advanced Solid Waste Treatment Design

ENV 5306: Municipal Refuse Disposal

ENV 5518: Field Methods in Environmental Hydrology

ENV 5520: Fluid Flow in Environmental Systems

ENV 5555: Wastewater Treatment

ENV 5565: Hydraulic Systems Design

ENV 6050: Advanced Pollutant Transport

ENV 6052: Immiscible Fluids in Porous Media

ENV 6116: Air Pollution Sampling and Analysis

ENV 6126: Air Pollution Control Design

ENV 6130: Aerosol Mechanics

ENV 6146: Atmospheric Dispersion Modeling

ENV 6215: Health Physics

ENV 6216: Radioactive Wastes

ENV 6301: Advanced Solid Waste Containment Design

ENV 6416: Advanced Stormwater Control Systems

ENV 6435: Advanced Water Treatment Process Design

ENV 6435C: Advanced Water Treatment Process Design

ENV 6435L: Water Treatment Process Design Laboratory

ENV 6437: Advanced Wastewater System Design

ENV 6438: Advanced Potable Water Systems Design

ENV 6439: Activated Carbon: Environmental Design and Application

ENV 6441: Water Resources Planning and Management

ENV 6508: Wetland Hydrology

ENV 6510: Groundwater Restoration

ENV 6511: Biological Wastewater Treatment

ENV 6556: Advanced Waste Treatment Operations

ENV 6617: Principles of Green Engineering Design and Sustainability

ENV 6905: Individual Work

ENV 6910: Supervised Research

ENV 6916: Nonthesis Project

ENV 6932: Special Problems in Environmental Engineering

ENV 6935: Graduate Environmental Engineering Seminar

ENV 6971: Research for Master's Thesis

ENV 7979: Advanced Research

ENV 7980: Research for Doctoral Dissertation

Epidemiology Department

[College of Public Health and Health Professions](#)
[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

PHC 6010: Data Management and Statistical Computing for Epidemiology

PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II

PHC 6052: Introduction to Biostatistical Methods

PHC 6070: Epidemiology of Aging

PHC 6405: Theoretical Foundations of Public Health

PHC 6517: Public Health Concepts in Infectious Diseases

PHC 6711: Measurement in Epidemiology and Outcomes Research

PHC 6716: Survey Research Methods

PHC 6912: Special Project: Independent Research

PHC 6938: Oral and Craniofacial Epidemiology

PHC 7065: Critical Skills in Epidemiological Data Management

PHC 7427: Ethics in Population Science

PHC 7727: Grant Writing for Population Health Research

PHC 7910: International Field Epidemiology

PHC 7916: National Field Epidemiology

STA5325: Fundamentals of Probability

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases

GMS 6813: Clinical Trials

GMS 6819: Design and Conduct Clinical Trials II

GMS 6827: Advanced Clinical Trial Methods

GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences

GMS 6882: Directed Readings in Epidemiology and Health Policy

GMS 6884: Research in Epidemiology and Health Policy

PHC 6008: Cardiovascular Epidemiology

PHC 6034: Epidemic Investigation

PHC 7007: Cancer Epidemiology

PHC 7902: Epidemiology Supervised Research Writing Circle

PHC 7934: Seminar I: Epidemiology Past, Present, and Future

Family, Youth, and Community Sciences Department

Interim Chair: Tracy Irani

Graduate Coordinator: Larry F. Forthun

Complete faculty listing by department: [Follow this link](#)

The FYCS graduate program is an interdisciplinary applied social science program that prepares students for advanced degrees (e.g., Ph.D.) and careers in such areas as family and youth services, Extension and community-based education, community development and nonprofit management, program planning and evaluation, and social policy. Graduates find careers in both the public and private sectors including:

- Child and Youth Development in areas such as juvenile justice, dropout prevention programs, recreational and camp programs, and youth ministry;
- Community Development Practice in local and regional government, private nonprofit organizations (such as chambers of commerce, local development corporations, and local, national and international foundations) and citizen's groups;
- Nonprofit Organizational Management, such as management of community based, nonprofit organizations;
- Family and Social Services, such as family preservation programs, assistance for abused and neglected children and other public assistance programs; and
- Cooperative Extension Service in such areas as youth development, family and consumer sciences and community development.

Contact the graduate coordinator for more information.

FYC 5008: Personal and Family Tax Planning

FYC 5009: Personal and Family Insurance Planning

FYC 5106: Personal and Family Retirement and Estate Planning

FYC 5935: Personal and Family Financial Planning Capstone

FYC 6020: Principles of Family, Youth, and Community Sciences

FYC 6111: Families and Violence

FYC 6117: Military Families in Community Context

FYC 6131: Ethics for FYCS Practitioners

FYC 6207: Adolescent Problematic Behavior

FYC 6221: Grant Proposals for Community-Based Organizations

FYC 6222: Parenting and Child Relationships

FYC 6223: Promoting Positive Youth Development

FYC 6224: Resilience and Positive Youth Development

FYC 6230: Theories of Youth and Family Development

FYC 6234: Theoretical Approaches to Youth Programming

FYC 6302: Sustainable Community Development

FYC 6320: Community Development and Civic Engagement

FYC 6330: Theories of Community Development

FYC 6331: Involving Youths in Community Issues

FYC 6412: Historical Foundations of Philanthropy

FYC 6421: Nonprofit Organizations

FYC 6422: Policy Issues and Case Studies in Nonprofit Organizations

FYC 6423: Non-Governmental Organizations

FYC 6424: Fund Raising for Community Nonprofit Organizations

FYC 6425: Risk Management in Nonprofit Organizations

FYC 6620: Program Planning and Evaluation for Human Service Delivery

FYC 6662: Public Policy and Human Resource Development

FYC 6800: Scientific Reasoning and Research Design

FYC 6802: Advanced Research Methods for Family, Youth, and Community Sciences

FYC 6901: Problems in Family, Youth, and Community Sciences

FYC 6912: Nonthesis Project in Family, Youth, and Community Sciences

FYC 6932: Topics, in Family, Youth, and Community Sciences

FYC 6933: Seminar in Human Resource Development

FYC 6934: Professional Internship/Practicum in Family, Youth, and Community Sciences

FYC 6971: Research for Master's Thesis**Finance, Insurance, and Real Estate Department**

Chair: Michael D. Ryngaert

Graduate Coordinator: Mahen Nimalendran

Complete faculty listing: [Follow this link.](#)

The Department of Finance, Insurance, and Real Estate offers graduate work leading to the Master of Science degree with major programs in finance and real estate; the Master of Science in Entrepreneurship (M.S.E.); and the Doctor of Philosophy degree in business administration with a concentration in finance, insurance, quantitative analysis, or real estate. Complete descriptions of the minimum requirements for the M.S., M.S.E., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

Finance, Real Estate, and Entrepreneurship are also available as concentrations within the M.B.A. program. For information about the M.B.A. program, please consult that listing in the [Graduate Degrees](#) section.

For more information see the program pages below, and visit our website: <http://warrington.ufl.edu/departments/fire>.

ENT 5275: Family Business Management**ENT 6006: Entrepreneurship****ENT 6008: Entrepreneurial Opportunity****ENT 6016: Venture Analysis****ENT 6116: Business Plan Formation****ENT 6416: Venture Finance****ENT 6506: Social Entrepreneurship****ENT 6616: Creativity in Entrepreneurship****ENT 6905: Individual Work in Entrepreneurship****ENT 6930: Special Topics****ENT 6933: Entrepreneurship Lecture Series****ENT 6946: Entrepreneurial Consulting Project****ENT 6950: Integrated Technology Ventures****ENT 6957: International Studies in Entrepreneurship****FIN 5405: Business Financial Management****FIN 5437: Finance I: Asset Valuation, Risk, and Return****FIN 5439: Finance II: Capital Structure and Risk Management Issues****FIN 6108: Personal Financial Management****FIN 6246: Money and Capital Markets****FIN 6296: Capitalism****FIN 6306: Investment Banking****FIN 6418: International Cash Flow Management****FIN 6425: Corporation Finance****FIN 6427: Measuring and Managing Value**

FIN 6429: Financial Decision Making

FIN 6432: Asset Valuation and Corporate Finance

FIN 6434: Private Equity

FIN 6438: Study in Valuation

FIN 6465: Financial Statement Analysis

FIN 6477: Entrepreneurial Finance

FIN 6489: Financial Risk Management

FIN 6496: Mergers & Acquisitions

FIN 6518: Investment Concepts

FIN 6525: Asset Management Project

FIN 6526: Portfolio Theory

FIN 6528: Asset Allocation and Investment Strategy

FIN 6537: Derivative Securities

FIN 6545: Fixed Income Security Valuation

FIN 6547: Interest Rate Risk Management

FIN 6549: Special Topics in Fixed Income Securities

FIN 6575: Emerging Markets Finance I

FIN 6576: Emerging Markets Finance II

FIN 6585: Securities Trading

FIN 6595: Investment Analytics

FIN 6596: Introduction to Computational Methods & Derivative Pricing

FIN 6608: Financial Management of the Multinational Corporation

FIN 6626: International Finance

FIN 6638: International Finance

FIN 6643: Project Analysis in a Global Environment

FIN 6727: Economic Organizations and Markets

FIN 6728: Capitalism and Regulation

FIN 6729: Economics Organizations and Markets

FIN 6785: Investment Banking and Corporate Financial Modeling I

FIN 6786: Investment Banking and Corporate Financial Modeling II

FIN 6905: Individual Work in Finance

FIN 6930: Special Topics in Finance

FIN 6935: Finance Professional Speaker Series

FIN 6936: Special Topics In Investment Finance

FIN 6940: Supervised Teaching

FIN 6957: International Studies in Finance

FIN 6958: International Finance Study Tour

FIN 6971: Research for Master's Thesis

FIN 7446: Financial Theory I

FIN 7447: Financial Theory II

FIN 7808: Corporate Finance

FIN 7809: Investments

FIN 7848: Marketing Microstructure

FIN 7938: Finance Research Workshop

FIN 7979: Advanced Research

FIN 7980: Research for Doctoral Dissertation

GEB 5114: Entrepreneurship and Venture Finance

GEB 5118: New Venture Creation

GEB 6157: Entrepreneurship Experiential Learning Project

GEB 6366: Fundamentals of International Business

GEB 6924: Entrepreneurship Professional Speaker Series

REE 6045: Introduction to Real Estate

REE 6058: Construction Considerations in Real Estate

REE 6105: Real Estate Appraisal

REE 6206: Primary Mortgage Markets and Institutions

REE 6208: Secondary Mortgage Markets and Securitization

REE 6315: Real Estate Market and Transaction Analysis

REE 6395: Investment Property Analysis

REE 6397: Real Estate Securities and Portfolios

REE 6705: Geographic Information Systems and Location Analysis

REE 6737: Real Estate Development

REE 6905: Individual Work in Real Estate

REE 6910: Supervised Research

REE 6930: Special Topics in Real Estate

REE 6935: Real Estate Case Studies

REE 6940: Supervised Teaching

REE 6948: Capstone Seminar and Applied Project

REE 6957: International Studies in Real Estate

REE 7979: Advanced Research

REE 7980: Research for Doctoral Dissertation

Fisher School of Accounting

[Warrington College of Business Administration](#)

Director: Gary A. McGill

Graduate Coordinators: Dominique DeSantiago, Stephen Asare

Complete faculty listing by department: [Follow this link.](#)

As a professional school in a major public research university, the Fisher School of Accounting (FSOA) is committed to scholarly research, teaching, and service to advance knowledge and prepare future leaders for business, professional, and academic careers.

The Fisher School of Accounting offers graduate work leading to the Master of Accounting (M.Acc.) degree with a major in accounting, and the Ph.D. degree with a major in business administration and an accounting concentration. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below, or visit our website: <http://warrington.ufl.edu/accounting>

ACG 5005: Financial Accounting

ACG 5065: Financial and Managerial Accounting

ACG 5075: Managerial Accounting

ACG 5226: Advanced Accounting

ACG 5505: Governmental Accounting

ACG 5637: Auditing I

ACG 5647: Auditing II

ACG 5815: Accounting Regulation

ACG 6136: Accounting Theory

ACG 6175: Financial Reporting and Analysis

ACG 6207: Accounting for Risk

ACG 6265: International Accounting and Taxation

ACG 6635: Issues in Audit Practice

ACG 6685: Forensic Accounting

ACG 6691: International Auditing

ACG 6697: Information Systems Assurance

ACG 6905: Individual Work in Accounting

ACG 6935: Special Topics in Accounting

ACG 6940: Supervised Teaching

ACG 7885: Accounting Research I

ACG 7886: Accounting Research II

ACG 7887: Research Analysis in Accounting

ACG 7939: Theoretical Constructs in Accounting

ACG 7979: Advanced Research

ACG 7980: Research for Doctoral Dissertation

TAX 5005: Introduction to Federal Income Taxation

TAX 5025: Federal Income Tax 1

TAX 5027: Federal Income Tax 2

TAX 5065: Tax Professional Research

TAX 6105: Corporate Taxation

TAX 6115: Advanced Corporate Taxation

TAX 6205: Partnership Taxation

TAX 6526: International Taxation

TAX 6726: Executive Tax Planning

TAX 6877: State and Local Taxation

Food and Resource Economics Department

[College of Agricultural and Life Sciences](#)

Interim Chair: Rodney L. Clouser

Acting Graduate Coordinator: Sherry Larkin

Complete faculty listing by department: [Follow this link](#)

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

The Department participates in programs with the Center for Latin American Studies, the Center for African Studies, the Center for Tropical Agriculture, the School of Natural Resources and Environment, the College of Law, and the Florida Sea Grant College Program.

The Department programs reflects the diversity of Florida's agriculture which has more than fifty major commodities. With over thirty faculty involved in a full range of research, extension, and teaching programs in areas including Agricultural Marketing, International Trade, Policy, Production/Farm Management, International Development, Marine Economics, Natural Resource and Environmental Economics, Community/Regional Development and Labor Economics. In addition to the main campus location, the department has faculty at research centers throughout the state.

Several members of the faculty have garnered international reputations in diverse fields such as trade policy, generic advertising, citrus economics, sugar policy, business retention and expansion, leadership development, consumer attitudes towards genetically modified food, and dairy marketing.

The Department offers a combined bachelor's/master's degree program for the Master of Science and Master of Science with Concentration in Agribusiness. Contact the Graduate Program Office in 1170 McCarty Hall for information.

For more information, please see the program pages below, and see our website: <http://www.fred.ifas.ufl.edu>.

AEB 5167: Economic Analysis in Small Farm Livelihood Systems

AEB 5188: Economics of Agribusiness Decisions

AEB 5326: Agribusiness Financial Management

AEB 5516: Quantitative Methods in Agribusiness Decisions

AEB 5757: Strategic Agribusiness Human Resource Management

AEB 6106: Microeconomic Principles and Analysis

AEB 6139: Strategic Agribusiness Management

AEB 6145: Agricultural Finance

AEB 6183: Agribusiness Risk Management

AEB 6225: Public Policy and the Agribusiness Firm

AEB 6301: Food Wholesale and Retail Marketing

AEB 6363: Agricultural Marketing

AEB 6385: Management Strategies for Agribusiness Firms

AEB 6533: Static and Dynamic Optimization Models in Agriculture

AEB 6553: Elements of Econometrics

AEB 6592: Mathematical Programming for Economic Analysis

AEB 6675: International Agribusiness Marketing

AEB 6815: Science and Research Methodology

AEB 6817: Survey Research Methods for Economists

AEB 6905: Problems in Food and Resource Economics

AEB 6910: Supervised Research

AEB 6921: Workshop in Food and Resource Economics I

AEB 6933: Special Topics

AEB 6934: Workshop in Food and Resource Economics II

AEB 6942: Advanced Applications in Agribusiness Experience

AEB 6971: Research for Master's Thesis

AEB 7108: Microeconomic Theory II

AEB 7174: Economic Coordination and Organizational Behavior in Agribusiness

AEB 7182: Agricultural Risk Analysis and Decision Making

AEB 7184: Production Economics

AEB 7240: Macroeconomic Theory in Open Economies II

AEB 7373: Consumer Demand and Applied Analysis

AEB 7453: Natural Resource and Environmental Economics

AEB 7483: Seminar in Natural Resource and Environmental Economics

AEB 7571: Econometric Methods I

AEB 7572: Econometric Methods II

AEB 7645: Economic Development and Agriculture

AEB 7979: Advanced Research

AEB 7980: Research for Doctoral Dissertation

Food Science and Human Nutrition Department

[College of Agricultural and Life Sciences](#)

Chair: Susan S. Percival

Graduate Coordinators: Harry S. Sitren (M.S. in Food Science and Human Nutrition / Ph.D. in Food Science), James F. Collins (Ph.D. in Nutritional Sciences)

Complete faculty listing by department: [Follow this link.](#)

The Food Science and Human Nutrition Department (FSHN) is one of the world's largest combined academic programs where food science, nutritional sciences, and dietetics are all studied within one department. FSHN has nearly 30 full-time faculty members, 80 graduate assistants, and close to 1,000 undergraduate students. Our programs are accredited by the [Institute of Food Technologists](#) (IFT) and the [Academy of Nutrition and Dietetics](#). After completing undergraduate degrees, our students typically move on to professional employment, further education or training in food or nutrition graduate programs, or on to professional school programs. We have a strong record of excellent placement of our graduate students in industry and professional organization employment positions, as faculty members at colleges and universities, or in postdoctoral training experiences.

Our faculty has trained at institutions from around the world; they have been widely successful in their teaching, research, and extension efforts. Throughout our programs in food science, nutrition, and dietetics, our faculty is recognized nationally and internationally as experts in their respective fields.

The Food Science and Human Nutrition Department offers programs leading to the degrees of Master of Science in Food Science and Human Nutrition, Doctor of Philosophy in Food Science, and Doctor of Philosophy in Nutritional Sciences (offered under the auspices of the [Center for Nutritional Sciences](#)). Minimum requirements for these degrees are located in the Graduate Degrees section of this catalog.

For more information please click the links to the program pages below, or see our website: <http://fshn.ifas.ufl.edu>.

DIE 6241: Advanced Medical Nutrition Therapy

DIE 6242: Advanced Medical Nutrition Therapy II

DIE 6516: Professional Development in Dietetics

DIE 6905: Problems in Dietetics

DIE 6938: Advanced Dietetic Seminar

DIE 6942: Dietetic Internship I

DIE 6944: Dietetic Internship II

DIE 6949: Dietetic Internship in Sports Nutrition

FOS 5126C: Psychophysical Aspects of Foods

FOS 5205: Current Issues in Food Safety and Sanitation

FOS 5225C: Principles in Food Microbiology

FOS 5437C: Food Product Development

FOS 5561C: Citrus Processing Technology

FOS 5645: Functional Foods and Nutraceuticals

FOS 5732: Current Issues in Food Regulations

FOS 6125C: Sensory Evaluation of Food

FOS 6215: Principles of Food Safety

FOS 6216: Food Safety Systems

FOS 6217: Food Safety, Sanitation, and Microbiology

FOS 6226C: Advanced Food Microbiology

FOS 6315C: Advanced Food Chemistry

FOS 6317C: Flavor Chemistry and Technology

FOS 6355C: Instrumental Analysis and Separations

FOS 6428C: Advanced Food Processing

FOS 6455C: Industrial Food Fermentations

FOS 6736: Food Regulations

FOS 6905: Problems in Food Science

FOS 6910: Supervised Research

FOS 6915: Research Planning

FOS 6936: Topics in Food Science

FOS 6938: Food Science Seminar

FOS 6940: Supervised Teaching

FOS 6971: Research for Master's Thesis

FOS 7979: Advanced Research

FOS 7980: Research for Doctoral Dissertation

HUN 5246: Current Issues in Dietary Supplements

HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition

HUN 5447: Nutrition and Immunity

HUN 6245: Advanced Human Nutrition

HUN 6255: Clinical Nutrition

HUN 6301: Nutritional Aspects of Lipid Metabolism

HUN 6305: Nutritional Aspects of Carbohydrates

HUN 6321: Proteins and Amino Acids in Nutrition

HUN 6331: Vitamins in Human Nutrition

HUN 6356: Minerals in Nutrition

HUN 6812C: Analytical Techniques in Nutritional Biochemistry

HUN 6905: Problems in Nutritional Sciences

HUN 6910: Supervised Research

HUN 6936: Topics in Nutritional Sciences

HUN 6938: Nutritional Sciences Seminar

HUN 6939: Advanced Clinical Nutrition

HUN 6940: Supervised Teaching

HUN 6971: Research for Master's Thesis

HUN 7979: Advanced Research

HUN 7980: Research for Doctoral Dissertation

Geography Department

Chair: M. W. Binford

Graduate Coordinator: C. J. Matyas

Complete faculty listing by department: [Follow this link.](#)

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog

The focus of the Department is in human-environment interactions, with "environment" interpreted very broadly. The Department provides four main areas of specialization for graduate research: economic and cultural geography; resource management and land use and land cover change; medical geography; and physical geography. Economic and cultural geography concerns such topics as spatial economic theory and; housing and care of the elderly. Resource management and land-use and land-cover change focus on agricultural change and resource conservation and development in the tropics and subtropics, and rural and urban land use and land cover change in tropical and temperate regions. Africa and Latin America are the primary areas of regional emphasis outside of the U.S. Physical geography in the Department concentrates on climatology, fluvial geomorphology, and hydrology. Medical geography studies the geographic aspects of human health including disease ecology and transmission and healthcare issues. The Department's extensive geographic information system, remote sensing, and computer cartography teaching and research facilities contribute to and support all of the areas of research. Faculty from the Department are also major participants in the Emerging Pathogens Institute, Florida Climate Institute, Land Use and Environmental Change Institute (L.U.E.C.I.), and the Water Institute. Prospective students should examine the research interests of the Graduate Faculty to obtain a more detailed sense of the Department's specialties (see the departmental website: www.geog.ufl.edu).

To ensure the incorporation of relevant interdisciplinary perspectives in each student's program, the Department maintains close ties with other departments in Liberal Arts and Sciences, and with programs in African studies, Latin American studies, the School of Natural Resources and Environment, the Institute on Aging, urban and regional planning, tropical agriculture, tropical ecology, water resources, the Warrington College of Business Administration, the College of Agricultural and Life Sciences, College of Public Health and Health Professions, and the Hydrological Sciences Academic Cluster. Certificates in certain of these fields may be obtained in addition to graduate degrees in geography. Geography administers the Graduate Certificate in Applied Atmospheric Sciences.

A graduate student should preferably have an undergraduate major in geography, but applicants with degrees in one of the social or physical sciences are accepted into the Department's graduate program. Deficiencies in undergraduate work in geography must be corrected concurrently with registration in graduate level courses. All students in the graduate program are required to take courses in contemporary geographic thought and geographic research skills.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

GEA 6419: Seminar: South America

GEA 6466: Seminar on Geography of Amazonia

GEA 6468: Resource Utilization and Conservation in Latin America

GEO 5305: Environmental Biogeography

GEO 5346: Natural Hazards

GEO 5556: Geography of Innovation and Technological Change

GEO 5605: Advanced Urban Geography

GEO 5809: Geography of World Agriculture

GEO 5905: Individual Study: Directed Reading

GEO 5920: Geography Colloquium

GEO 5945C: Field Course in Geography

GEO 6118: Contemporary Geographic Thought and Research

GEO 6119: Proposal Writing in Geography

GEO 6160: Introduction to Quantitative Methods for Geographers

GEO 6161: Intermediate Quantitative Methods for Geographers

GEO 6166: Advanced Quantitative Methods for Spatial Analysis

GEO 6255: Climatology

GEO 6282: Fluvial Morphology

GEO 6348: Floods Seminar

GEO 6375: Land Change Science Seminar

GEO 6429: Seminar: Cultural Geography

GEO 6435: Seminar in Population

GEO 6451: Medical Geography

GEO 6495: Environment and Behavior

GEO 6905: Individual Work

GEO 6921: How to Survive and Thrive in Academia

GEO 6931: Seminar in Cultural and Political Ecology

GEO 6938: Selected Topics in Geography

GEO 6971: Research for Master's Thesis

GEO 7979: Advanced Research

GEO 7980: Research for Doctoral Dissertation

GEY 6341: Shelter and Care Options for U.S. Elderly

GIS 5008C: Maps and Graphs

GIS 5009C: Advanced Cartography

GIS 5028C: Advanced Aerial Photo Interpretation

GIS 5038C: Remote Sensing

GIS 5107C: Geographic Information Systems in Research

GIS 5306: Geographic Information Systems Applications in Environmental Systems

GIS 5540: Business Geography and New Real Estate Market Analysis

GIS 6104: Spatial Networks

GIS 6425C: GIS Models for Public Health

MET 5504: Weather and Forecasting

MET 6530: Hurricanes

MET 6565: Seminar in Atmospheric Teleconnections

MET 6752: Atmospheric Data Analysis

Geological Sciences Department

Chair: P. A. Mueller.

Graduate Coordinator: J. M. Jaeger.

Complete faculty listing [Follow this link](#).

The Department of Geological Sciences is composed of a group of internationally recognized faculty, graduate students, and dedicated support staff. Faculty and students in the Department of Geological Sciences are involved in exciting and groundbreaking research projects throughout the world and in Florida. The Department houses world-class analytical and computing facilities for research and teaching.

The Department has identified six primary areas of emphasis in its research and teaching programs: environmental geology and hydrology, paleoclimatology, tectonophysics, geochemistry and mineralogy/petrology, marine and coastal geology, and paleomagnetism. For more detailed information on current departmental activities, faculty, and research centers, see <http://web.geology.ufl.edu>. The Department has collaborative, interdisciplinary programs of study and research with the Florida Museum of Natural History, the Center for Wetlands Research, the Land Use and Environmental Change Institute (L.U.E.C.I.), and the hydrological sciences cluster.

ESC 5211: Current Topics in Earth Science for Teachers

GLY 5156: Geologic Evolution of North America

GLY 5245: Hydrogeochemistry

GLY 5246: Geochemistry

GLY 5247: Surface and Ground Water Interactions

GLY 5248: Physical Geochemistry

GLY 5255: Organic Geochemistry and Geobiology

GLY 5328: Advanced Igneous Petrology

GLY 5455: Introduction to Geophysics and Tectonics

GLY 5466: Seismology and Earth Structure

GLY 5468: Terrestrial Gravity and Magnetism

GLY 5476: Environmental Geophysics

GLY 5558C: Sedimentology

GLY 5576: Continental Margin Stratigraphy

GLY 5705: Geomorphology

GLY 5736: Marine Geology

GLY 5786L: Topics in Field Geology

GLY 5827: Ground Water Geology

GLY 6075: Global Climate Change: Past, Present, and Future

GLY 6268C: Isotope Geology

GLY 6297: Topics in Geochemistry

GLY 6425: Tectonics

GLY 6519: Stratigraphy and Timescales

GLY 6620C: Micropaleontology

GLY 6695: Topics in Paleoclimatology

GLY 6826: Hydrogeologic Modeling

GLY 6862: Numerical Methods in Earth Sciences

GLY 6905: Individual Work

GLY 6931: Seminar

GLY 6932: Special Topics in Geology

GLY 6940: Supervised Teaching

GLY 6943: Internship in College Teaching

GLY 6971: Research for Master's Thesis**GLY 7979: Advanced Research****GLY 7980: Research for Doctoral Dissertation****Health Outcomes and Policy Department**[College of Medicine](#)

Chair: Betsy Shenkman

Graduate Coordinator: Jill Hemdon

Complete faculty listing by department: [Follow this link.](#)

Students can pursue either a Master of Science degree or a Graduate Certificate.

There is increasing emphasis on assessing health outcomes throughout the lifespan in a variety of health care and community settings. Nationally, the National Institute of Health and other federal and state agencies focus on the development of evidence-based programs to promote health, improve health care delivery, and enhance health outcomes.

Outcomes research generates evidence that informs health care program design in clinical and community settings, the promotion of effective clinical and community interventions, quality of care, cost-effective and clinically appropriate choices for patients in allocation of health care resources (clinical effectiveness), and incorporation of best practice models into health-related programs and policies. Outcomes research also provides mechanisms to understand how to translate research into practice and policy, how to improve the quality and efficiency of health programs, and how to achieve equitable and appropriate delivery of health programs and clinical care, particularly for underserved and vulnerable populations.

Our graduate programs are designed to train professionals in the health care and health research fields about the science that supports the development and evaluation of evidence-based clinical and community-based programs focused on improving health outcomes. Further, our programs emphasize methods for translating research into practice and policy. The unique combination of courses offered through these graduate programs will give trainees the tools needed to examine health outcomes and policies in a variety of settings across different age spans and to examine the individual, social, health system, and health policy factors that influence health outcomes.

In addition to traditional graduate students, both programs are available to medical students, post-doctoral students, fellows, residents, Ph.D. students, and junior faculty.

GMS 6802: Examining Health Outcomes for Chronic Diseases in Clinical and Community-based Research**GMS 6803: Data Management for Clinical Research****GMS 6811: Grant Writing Skills for Clinical Research****GMS 6812: Cancer Health Outcomes Assessment****GMS 6816: Pediatric Child Health Outcomes Assessment for Clinical and Community-Based Research****GMS 6821: Measuring and Analyzing Health Outcomes I****GMS 6822: Measuring and Analyzing Health Outcomes II****GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1****GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2****GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3****GMS 6826: Advanced Design and Methodology for Case-Control Studies in Clinical Research****GMS 6829: Longitudinal Research Design****GMS 6830: Health Outcomes Research and Policy Development****GMS 6832: Economic Methods for Evaluating Value in Health****GMS 6833: Health Care Policy and Vulnerable Populations****GMS 6834: Health Policy and Formulation of Payment Mechanisms for Health Care****GMS 6835: Health Policy Issues in Children's Health****GMS 6842: Translational Research Methods****GMS 6844: Experimental and Quasi-Experimental Research Designs for Community Settings**

GMS 6846: Meta-Analysis in Clinical, Health Services Research and Public Health

GMS 6851: Health Outcomes Research

GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies

GMS 6853: Applied Topics in Dissemination and Implementation Science

GMS 6854: Applied Topics in Clinical Effectiveness Research

GMS 6885: Research Designs in Health Outcomes and Policy

GMS 6893: Clinical and Translational Science Seminar Series

GMS 6896: Health Outcomes and Policy Seminar

GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research

GMS 7887: Health Outcomes & Policy PhD Research Seminar

Health Services Research, Management, and Policy Department

Chair: Arch G. Mainous, III

Graduate Coordinator: Patricia Van Wert

Complete faculty listing: [Follow this link.](#)

The Department of Health Services Research, Management, and Policy offers degree programs at both the master's and doctoral level. The Master of Health Administration (M.H.A.) prepares individuals for management positions in the health care field. The Department also participates in the Master of Public Health (M.P.H.) degree by offering a concentration in Public Health Management and Policy (more information available [here](#)).

At the doctoral level, the Department offers the Ph.D. degree in Health Services Research. This full-time program prepares graduates to investigate and evaluate the complexities of health care systems in the U.S. and elsewhere. Health services research is a multidisciplinary field that examines the delivery, organization, financing, and outcomes of health care services.

Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below and our website: <http://hsrmp.php.ufl.edu>.

HSA 5103: Introduction to the U.S. Health Care System

HSA 5174: Fundamentals of Health Care Finance

HSA 6105: Professional Skills Seminar

HSA 6114: U.S. Health Care System

HSA 6115: Introduction to Management of Health Services Organizations

HSA 6126: U.S. Health Insurance System

HSA 6152: Overview of U.S. Health Policy

HSA 6175: Health Care Financial Management

HSA 6177: Advanced Health Care Finance

HSA 6179: Introduction to Health Care Finance

HSA 6188: Strategic Management in Health Administration

HSA 6196: Health Services Operations Management

HSA 6197: Information Management in Health Administration

HSA 6198: Information Management in Health Administration

HSA 6342: Human Resource Management for Health Services Managers

HSA 6385: Performance Management for Health Care Managers

HSA 6427: Legal and Ethical Issues in Health Administration

HSA 6855: Internship in Health Administration

HSA 6858: Internship in Health Services Research

HSA 6878: Externship in Legal Aspects of Health Services Administration

HSA 6905: Individual Study in Health Administration

HSA 6910: Supervised Research

HSA 6911: Research Seminar in Health Services Research

HSA 6930: Special Topics in Health Services Administration

HSA 6935: Seminar in Health Administration

HSA 6939: Capstone Seminar in Health Administration

HSA 6940: Supervised Teaching

HSA 6946: Internship in Public Health Management and Policy

HSA 7106: Seminar in Health Care Access and Utilization

HSA 7116: Health Services Organizational Research

HSA 7157: Research Foundations of Health Policy

HSA 7414: Society, Health, and Medical Care

HSA 7437: Advanced Health Economics

HSA 7707: Health Services Research Methods I

HSA 7708: Health Services Research Methods II

HSA 7759: Quality and Outcomes in Health Services Research

HSA 7905: Advanced Individual Study in Health Services Research

HSA 7936: Seminar in Health Care Costs and Financing

HSA 7938: Advanced Seminar in Health Services Research

HSA 7979: Advanced Research

HSA 7980: Research for Doctoral Dissertation

History Department

[College of Liberal Arts and Sciences](#)

Chair: Sean P. Adams

Graduate Coordinator: Elizabeth Dale

The Department of History offers the following graduate degrees: Master of Arts with fields of specialization in African, Asian, European, Latin American, and United States history, and the Doctor of Philosophy with fields of specialization in African, European, Latin American, and United States history. In addition to materials required by the Graduate School for admission, applicants must send directly to the History Department the following evidence of aptitude and interest: Three recommendations, from persons competent to evaluate your potential for graduate work; A 3- to 5-page essay identifying your career goals and particular areas of interest; a sample of your written work in history. Interested students should consult the department web page for more information. □□

AFH 5297: History of African Agriculture

AFH 5348: History of West Africa

AFH 5458: Southern Africa

AFH 5934: Topics in African History

AFH 6259: Seminar in Modern Africa

AFH 6805: Theories and Methods of African History

AFH 6934: Africa

AFH 6936: Readings in African History

AMH 5405: The South to 1860

AMH 5905: Special Studies

AMH 5930: Topics in United States History

AMH 6198: Early American Society

AMH 6199: Nineteenth Century America

AMH 6290: Modern America

AMH 6356: Research in U.S. History

AMH 6406: Readings in Southern History, 1607-1865

AMH 6465: Seminar in U.S. Urban History

AMH 6506: Seminar in American Labor History

AMH 6516: Seminar in American Foreign Relations and Expansion

AMH 6557: Seminar in Constitutional or Legal History of the United States

ASH 5388: Topics in East Asian History

EUH 5195: The Archaeology of the Middle Ages

EUH 5546: Topics in British History

EUH 5934: Topics in European History

EUH 6126: Readings in Medieval History

EUH 6174: Conversion in the Middle Ages

EUH 6175: Ethnicity in the Middle Ages

EUH 6176: Villages and Peasants in the Middle Ages

EUH 6177: Economy and Society in Late Antiquity and the Early Middle Ages

EUH 6213: Europe, 1500-1763

EUH 6289: Readings, Modern Europe

EUH 6469: Modern German History

EUH 6935: Readings, Early Modern Europe

EUH 6937: Readings in Mediterranean History

HIS 5450: Slavery in the New World: Comparative Perspectives

HIS 5484: Science and the Enlightenment

HIS 5485: Special Studies in the History of Science

HIS 6060: Historical Method

HIS 6061: Introduction to Historiography

HIS 6416: Problems in Comparative Legal History

HIS 6445: Postcolonial Theories

HIS 6469: Topics in Historiography of History of Science

HIS 6478: Topics in the Scientific Revolution

HIS 6480: Pre-Newtonian Sciences

HIS 6488: Readings in the History of Science

HIS 6905: Individual Study

HIS 6910: Supervised Research

HIS 6940: Supervised Teaching

HIS 6943: Internship in College Teaching

HIS 6957: Nonthesis Project in History

HIS 6971: Research for Master's Thesis

HIS 7979: Advanced Research

HIS 7980: Research for Doctoral Dissertation

LAH 5438: Modern Mexico

LAH 5475: Caribbean, Nineteenth and Twentieth Centuries

LAH 5476: Caribbean History to 1800: Slavery, Colonization, and International Conflict

LAH 5527: Andean Nations

LAH 5607: History of Amazonia

LAH 5637: Brazil Since 1750

LAH 5933: Topics in Caribbean History

LAH 5934: Topics in Latin American History

LAH 6934: Seminar in Colonial Spanish America

LAH 6936: Seminar in History of Brazil

LAH 6938: Seminar in Modern Spanish America

Horticultural Sciences Department

[College of Agricultural and Life Sciences](#)

Chairs : K.M. Folta (Interim Chair, Horticultural Sciences) and W. Mackay (Environmental Horticulture)
Graduate Coordinator: G. A. Moore (Horticultural Sciences) and L. Trenholm (Environmental Horticulture)

Complete faculty listing: [Follow this link](#).

The Horticultural Sciences Department Graduate Program at the University of Florida has a wide array of opportunities for graduate study.

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

The Horticultural Sciences Department offers a combined bachelor's/master's degree program. Please contact the graduate coordinator for information.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest. Details about the program and how to apply are listed on their website: <http://hos.ufl.edu>.

ALS 5934: Graduate Professional Development Seminar**HOS 5085C: Principles of Postharvest Horticulture****HOS 5115C: Horticultural Plant Morphology and Identification****HOS 5242: Genetics & Breeding of Vegetable Crops****HOS 5306: Molecular Biology of Plant Hormones****HOS 5330: Postharvest Technologies for Horticultural Crops****HOS 5432: Advanced Nutritional Management of Ornamental Crops****HOS 5515C: Greenhouse and Nursery Operations****HOS 5516C: Advanced Production of Greenhouse and Nursery Crops****HOS 5555: Tropical Fruit Production and Research in Florida****HOS 5711: Phytochemicals in Food & Health****HOS 6201: Breeding Perennial Cultivars****HOS 6236: Molecular Marker Assisted Plant Breeding****HOS 6331: Postharvest Biology****HOS 6345: Environmental Physiology****HOS 6412: Nutrition of Horticultural Crops****HOS 6523: Research and Development in Turfgrass Science****HOS 6545: Advanced Citriculture I****HOS 6546: Advanced Citriculture II****HOS 6905: Problems in Horticultural Science****HOS 6910: Supervised Research****HOS 6931: Horticultural Science Seminar****HOS 6932: Special Topics****HOS 6934: Professional Seminar Preparation****HOS 6940: Supervised Teaching**

HOS 6941: Practicum in Horticultural Science

HOS 6971: Research for Master's Thesis

HOS 7979: Advanced Research

HOS 7980: Research for Doctoral Dissertation

ORH 5026C: Advanced Annual and Perennial Gardening

ORH 5086: Advanced Golf and Sports Turf Management

ORH 5282: Orchid Biology and Culture

ORH 5322C: Palm Biology and Culture

ORH 5817C: Advanced Florida Native Landscaping

ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture

PCB 5065: Advanced Genetics

PLS 5222C: Propagation of Horticultural Crops

PLS 5241C: Advanced Plant Micropropagation

PLS 5405: Advanced Composting Technology

Human Development and Organizational Studies in Education Department

Director: Linda B. Eldridge

Graduate Coordinator: Patricia Ashton

Complete faculty listing by department: [Follow this link.](#)

Programs leading to the Master of Arts in Education (M.A.E.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees are offered through this school with programs in Counseling and Counselor Education, Educational Leadership, Higher Education Administration, Marriage and Family Counseling, Mental Health Counseling, Research and Evaluation Methodology, School Counseling and Guidance, and Student Personnel in Higher Education.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

More information can be found at our website: <http://education.ufl.edu/hdose>

EDA 5938: Special Topics

EDA 6061: Educational Organization and Administration

EDA 6107: Leading Change in Educational Organizations

EDA 6192: Educational Leadership: The Individual

EDA 6193: Educational Leadership: Instruction

EDA 6195: Educational Policy Development

EDA 6215: Communications in Educational Leadership

EDA 6222: Administration of School Personnel

EDA 6225: Labor Relations in Public Education

EDA 6232: Public School Law

EDA 6242: Public School Finance

EDA 6271: Technology Leadership for Educational Administrators

EDA 6423: Data-Driven Decision Making in Educational Organizations

EDA 6503: The Principalship

EDA 6905: Individual Work

EDA 6931: Special Topics

EDA 6935: Problems in School Administration and Supervision

EDA 6948: Supervised Practice in School Administration

EDA 6971: Research for Master's Thesis

EDA 7206: Organizational Leadership in Education

EDA 7945: Practicum in Supervision and Administration

EDA 7979: Advanced Research

EDA 7980: Research for Doctoral Dissertation

EDA 7985: Research Design in Educational Administration

EDF 5441: Assessment in General and Exceptional Student Education

EDF 6113: Educational Psychology: Human Development

EDF 6211: Educational Psychology: General

EDF 6215: Educational Psychology: Learning Theory

EDF 6232: Principles of Learning and Instructional Practice

EDF 6400: Quantitative Foundations of Education Research Overview

EDF 6401: Educational Statistics

EDF 6402: Quantitative Foundations in Educational Research: Inferential Statistics

EDF 6403: Quantitative Foundations of Educational Research

EDF 6434: Educational Measurement

EDF 6436: Theory of Measurement

EDF 6471: Survey Design and Analysis in Educational Research

EDF 6475: Qualitative Foundations of Educational Research

EDF 6481: Quantitative Research Methods in Education

EDF 6905: Individual Study

EDF 6910: Supervised Research

EDF 6938: Special Topics

EDF 6940: Supervised Teaching

EDF 6941: Practicum in Educational Research

EDF 6971: Research for Master's Thesis

EDF 7117: Affective Development and Education

EDF 7405: Advanced Quantitative Foundations of Educational Research

EDF 7412: Structural Equation Models

EDF 7413: Advanced Topics in Structural Equation Modeling

EDF 7435: Rating Scale Design and Analysis in Educational Research

EDF 7439: Item Response Theory

EDF 7474: Multilevel Models

EDF 7479: Qualitative Data Analysis: Approaches and Techniques

EDF 7483: Qualitative Data Collection: Approaches and Techniques

EDF 7486: Methods of Educational Research

EDF 7491: Evaluation of Educational Products and Systems

EDF 7639: Research in Educational Sociology

EDF 7931: Seminar in Educational Research

EDF 7932: Multivariate Analysis in Educational Research

EDF 7979: Advanced Research

EDF 7980: Research for Doctoral Dissertation

EDG 6250: The School Curriculum

EDG 6285: Evaluation in the School Program

EDG 6356: Teaching, Learning and Assessment

EDG 6905: Individual Work

EDG 6910: Supervised Research

EDG 6931: Special Topics

EDG 6940: Supervised Teaching

EDG 6971: Research for Master's Thesis

EDG 6973: Project in Lieu of Thesis

EDG 7222: Curriculum: Theory and Research

EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education

EDG 7665: Bases of Curriculum and Instruction Theory

EDG 7941: Field Experience in Curriculum and Instruction

EDG 7979: Advanced Research

EDG 7980: Research for Doctoral Dissertation

EDH 6040: Theory of College Student Development

EDH 6046: Diversity Issues in Higher Education

EDH 6049: Domestic and International College Student Services

EDH 6051: Educational Outcomes of American Colleges and Universities

EDH 6053: The Community Junior College in America

EDH 6066: American Higher Education

EDH 6067: Seminar: International Higher Education

EDH 6305: College and University Teaching

EDH 6360: Foundations and Functions of College Student Personnel

EDH 6361: Theories and Assessment of Higher Educational Environments

EDH 6503: Resource Development in Higher Education

EDH 6632: Current Issues in Community College Leadership

EDH 6637: Crisis Management in Higher Education

EDH 6931: Special Topics in Higher Education

EDH 6935: Seminar in College Student Personnel Administration

EDH 6945: Practicum in College Teaching I

EDH 6946: Practicum in College Teaching II

EDH 6947: Practicum in Student Personnel

EDH 7225: Seminar: Curriculum in Higher Education

EDH 7405: The Law and Higher Education

EDH 7505: The Financing of Higher Education

EDH 7631: Administration of Instruction in Higher Education

EDH 7634: Student Affairs Administration in Higher Education

EDH 7635: Higher Education Administration

EDH 7916: Contemporary Research on Higher Education

EDH 7942: Group Supervision in Student Personnel

EDH 7948: Internship in Student Personnel

EDP 6052: Cognitive Psychology Applied to Education

EDS 6140: Supervision of Instruction

MHS 5005: Introduction to Counseling

MHS 6000: Assessment and Treatment of Family Violence

MHS 6020: Counseling in Community Settings

MHS 6061: Spiritual Issues in Multicultural Counseling

MHS 6071: Diagnosis and Treatment of Mental Disorders

MHS 6200: Assessment in Counseling

MHS 6340: Career Development

MHS 6401: Counseling Theories and Applications

MHS 6421: Play Counseling and Play Process with Children

MHS 6428: Multicultural Counseling

MHS 6430: Introduction to Family Counseling

MHS 6440: Marriage Counseling

MHS 6450: Substance Abuse Counseling

MHS 6464: Introduction to Disaster Mental Health Counseling

MHS 6466: Trauma and Crisis Intervention: Theory and Practice

MHS 6468: Multicultural issues in disaster mental health counseling

MHS 6469: Traumatic Stress and Disaster Mental Health Counseling

MHS 6471: Sexuality and Mental Health

MHS 6480: Developmental Counseling Over the Life Span

MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients

MHS 6500: Group Counseling: Theories and Procedures

MHS 6602: Educational Mediation

MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling

MHS 6720: Professional Identity and Ethics in Counseling

MHS 6831: Supervision for a Split Internship

MHS 6905: Individual Work

MHS 6910: Supervised Research

MHS 6940: Supervised Teaching

MHS 6971: Research for Master's Thesis

MHS 7402: Brief Therapy

MHS 7407: Advanced Counseling Theories

MHS 7431: Advanced Family Counseling

MHS 7600: Consultation Procedures

MHS 7610: Practicum in Counseling Supervision

MHS 7730: Seminar in Counseling Research

MHS 7740: Research in Counseling

MHS 7800: Practicum in Counseling

MHS 7804: Group Supervision in Agency Counseling

MHS 7805: Practicum in Agency Counseling

MHS 7806: Practicum in Marriage and Family Counseling

MHS 7807: Group Supervision in Marriage and Family Counseling

MHS 7830: Internship in Counseling and Development-600 Hours

MHS 7840: Internship in Counselor Education

MHS 7946: Internship in Agency Program Management

MHS 7979: Advanced Research

MHS 7980: Research for Doctoral Dissertation

SDS 6401: Counseling Skills for Non-Counselors

SDS 6411: Counseling with Children

SDS 6413: Counseling Adolescents

SDS 6436: Family-School Intervention

SDS 6520: Family, Student Development and Role of Teacher as Adviser

SDS 6620: Organization and Administration of School Counseling Programs

SDS 6831: Supervision for a Split Internship

SDS 6905: Individual Work

SDS 6936: Seminar in Counselor Education

SDS 6938: Special Topics

SDS 7800: Practicum in School Counseling

SDS 7820: Group Supervision in School Counseling

SDS 7830: Internship in Counseling and Development-600 Hours

Industrial and Systems Engineering Department

Chair: J. Geunes.

Graduate Coordinator: J. C. Smith and P. Momcilovic.

Complete faculty listing by department: [Follow this link.](#)

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Engineer degree and the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., Engineer, and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

EIN 6227: Advanced Quality Management and Engineering for Business Processes

EIN 6336: Advanced Production and Inventory Control

EIN 6357: Advanced Engineering Economy

EIN 6367: Facilities Layout and Location

EIN 6392: Manufacturing Management

EIN 6905: Special Problems

EIN 6910: Supervised Research

EIN 6918: Graduate Seminar

EIN 6940: Supervised Teaching

EIN 6971: Research for Master's Thesis

EIN 6972: Research for Engineer's Thesis

EIN 7933: Special Problems

EIN 7979: Advanced Research

EIN 7980: Research for Doctoral Dissertation

ESI 5236: Reliability Engineering

ESI 6162C: Advanced Industrial Applications of Microprocessors

ESI 6314: Deterministic Methods in Operations Research

ESI 6321: Applied Probability Methods in Engineering

ESI 6323: Models for Supply Chain Management

ESI 6341: Intro to Stochastic Optimization

ESI 6355: Decision Support Systems for Industrial and Systems Engineers

ESI 6417: Linear Programming and Network Optimization

ESI 6418: Linear Programming Extensions and Applications

ESI 6420: Fundamentals of Mathematical Programming

ESI 6429: Introduction to Nonlinear Optimization

ESI 6448: Discrete Optimization Theory

ESI 6449: Integer Programming

ESI 6470: Principles of Manufacturing Systems Engineering

ESI 6492: Global Optimization

ESI 6529: Digital Simulation Techniques

ESI 6533: Advanced Simulation Design and Analysis

ESI 6546: Stochastic Modeling and Analysis

ESI 6552: Systems Architecture

ESI 6553: Systems Design

ESI 6555: Systems Management

ESI 6912: Advanced Topics in ISE**Information Systems and Operations Management Department**

[Warrington College of Business Administration](#)

Chair: Haldun Aytug

Graduate Coordinator: Praveen Pathak

Complete faculty listing: [Follow this link.](#)

The primary mission of the Department of Information Systems & Operations Management is a commitment to scholarly research, teaching and service to advance the state of knowledge in information systems and supply chain management and to train future leaders for professional and academic careers.

The Department offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Combined Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/isom>.

ISM 5021: Information Systems in Organizations**ISM 6022: Management Information Systems****ISM 6123: Systems Analysis and Design****ISM 6128: Advanced Business Systems Design and Development I****ISM 6129: Advanced Business Systems Design and Development II****ISM 6215: Business Database Systems I****ISM 6216: Business Database Systems II****ISM 6217: Database Management Systems****ISM 6222: Business Telecom Strategy and Applications I****ISM 6223: Business Telecom Strategy and Applications II****ISM 6224: Business Telecom Strategy and Applications III****ISM 6226: Business Telecom Strategy and Applications****ISM 6236: Business Objects I****ISM 6239: Business Objects II****ISM 6257: Intermediate Business Programming****ISM 6258: Advanced Business Programming****ISM 6259: Business Programming****ISM 6405: Business Intelligence****ISM 6423: Data Analysis for Decision Support****ISM 6485: Electronic Commerce and Logistics****ISM 6486: eCommerce Technologies****ISM 6487: Risks and Controls in eCommerce****ISM 6942: Electronic Commerce Practicum****ISM 7166: Advanced Business Systems Design and Development III**

MAN 5501: Management

MAN 5502: Production and Operations Management

MAN 6508: Management of Service Operations

MAN 6511: Production Management Problems

MAN 6528: Principles of Logistics/Transportation Systems

MAN 6573: Purchasing and Materials Management

MAN 6575: Purchasing and Supplier Relationship Management

MAN 6581: Project Management

MAN 6586: Project Management

MAN 6598: Logistics and Distribution Management

MAN 6599: Tactical Logistics Planning

MAN 6617: International Operations/Logistics

MAN 6619: International Logistics

QMB 5303: Managerial Statistics

QMB 5304: Introduction to Managerial Statistics

QMB 5305: Advanced Managerial Statistics

QMB 6358: Statistical Analysis for Managerial Decisions I

QMB 6359: Statistical Analysis for Managerial Decisions II

QMB 6607: Decision Processes Under Uncertainty I

QMB 6616: Business Process Analysis

QMB 6693: Quality Management and Control Systems

QMB 6697: Optimization in Simulation Modeling I

QMB 6755: Managerial Quantitative Analysis I

QMB 6756: Managerial Quantitative Analysis II

QMB 6905: Individual Work in Information Systems and Operations Management

QMB 6910: Supervised Research

QMB 6930: Special Topics in Information Systems and Operations Management

QMB 6940: Supervised Teaching

QMB 6941: Internship

QMB 6957: International Studies in Quantitative Methods

QMB 6971: Research for Master's Thesis

QMB 7931: Special Topics in Information Systems and Operations Management

QMB 7933: Seminar in Information Systems and Operations Management

QMB 7979: Advanced Research

QMB 7980: Research for Doctoral Dissertation

Interior Design Department

Chair: M. Portillo.

Graduate Coordinator: N. Park

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy:

The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Interior Design:

The Master of Interior Design (M.I.D.) provides opportunities for students to direct their attention toward a variety of topics, including

- Design pedagogy and processes
- Sustainable, safe, and secure environments
- Creative performance and innovation
- Built heritage conservation.

Regardless of the study emphasis selected by the student, the M.I.D. program has a central focus with three categories of course work:

- Design studio
- Seminars in current interior design topics
- Theories and methods of research.

All M.I.D. students must complete an approved research topic with a written thesis. Requirements for the M.I.D. and Ph.D. degrees are given in the *General Information* section of this catalog.

Applications:

All applications must include acceptable GRE scores, transcripts for all previous academic work, and if the applicant's native language is not English, a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute. This information must be received in the Office of the Registrar by February 2. In addition to satisfying University requirements for admission, the applicants are required to submit to the Graduate Program Assistant, Department of Interior Design, 336 Architecture, P.O. Box 115705, University of Florida, Gainesville, FL 32611-5705, the following

- A portfolio of your design work (if applicable). The portfolio must be accompanied by a self-addressed, stamped envelope.
- A written essay on your goals and aspirations related to graduate studies
- Three letters of recommendation.
- A personal interview is not required, but many applicants choose to visit the campus and Department as a part of the application process.

Students enrolled in the Bachelor of Interior Design program at the University of Florida may apply to the M.I.D. program during their junior year (see below).

The Department reserves the right to retain student course work for the purposes of record, exhibition, or instruction. Field trips are required for all students; students should plan to have adequate funds available. Students are required to purchase a computer for course work. It may be necessary to assess studio fees to defray costs of base maps, plans, and other generally used materials.

Admission: Applications are processed through February 2 for fall term and all applicants are encouraged to apply as soon as possible. Admission decisions are made between February and the end of April. All new students begin their studies in the fall to coincide with curriculum sequencing.

Graduate course requirements according to background: After assessment of previous design work, leveling courses may be required to prepare the student for the M.I.D. 36 hours of graduate course work. Therefore, each student entering the Master of Interior Design program works with the graduate coordinator to evaluate the student's unique background to determine the specific courses needed to facilitate interest and experience. Estimated credit hours and length of study time vary according to each student's individual baccalaureate degree and experience.

There are four options.

- For students enrolled in the Bachelor of Design program at the University of Florida, 12 hours of graduate-level course work in the senior year can be counted for both the undergraduate and the M.I.D. degrees. An additional 24 graduate credit hours are required. Expect at least 1 additional year to complete the M.I.D.
- For students who graduated from a Council of Interior Design Accreditation (CIDA) accredited first professional degree program within an architectural framework, the course of study is estimated to be 36 graduate credit hours. Expect 2 years to complete the M.I.D.
- For students who graduated from a design-related (architecture or interior design) baccalaureate degree program, the course of study is estimated to be a maximum of 59 graduate credit hours (includes the 36-hour M.I.D.). Expect 3 years to complete leveling courses and the master's degree.
- For students with a bachelor's degree in a field other than design, the course of study is estimated to be 86 undergraduate and graduate credit hours. Expect 3 to 4 years to complete leveling courses and the M.I.D.

Estimates of the number of credit hours and length of study time may be adjusted based on the individual student's previous preparation including experience as a practicing designer, architect, or other professional.

Program requirements: After leveling courses are completed and with approval by the graduate coordinator and supervisory committee chair, a student completes 24 hours of departmentally approved graduate work in the Department of Interior Design. In addition, with the graduate coordinator's approval, the student is required to take 3 hours of course work in graduate statistics and 9 hours of multidisciplinary graduate electives that reinforce and extend the research.

Courses from such academic units as Psychology, Anthropology, Sociology, Engineering, Education, and Business Administration provide possible electives. The College of Design, Construction and Planning offers the Certificate in Historic Preservation. If the focus of a student is the renovation and preservation of built environments, then historic preservation courses leading to a certificate would strengthen the research and design effort. Likewise, existing appropriate courses in Architecture, Landscape Architecture, Urban and Regional Planning, and Building Construction offer both collaborative study and research opportunities for M.I.D. students.

Each student must select a two-member supervisory committee to guide course selection and to guide thesis selection, study, and production.

IND 5023: Introduction to Architectural Interiors

IND 5106: History of Interior Design I

IND 5136: History of Interior Design II

IND 5212C: Architectural Interiors I

IND 5213C: Introduction to Architectural Interiors Lab

IND 5227C: Advanced Architectural Interiors I

IND 5231C: Architectural Interiors II

IND 5232C: Advanced Architectural Interiors II

IND 5317C: Interior Design Communication Systems

IND 5326: Color Theory Planning and Practice

IND 5427C: Interior Design Construction Documents

IND 5428: Materials for Interior Design

IND 5434C: Interior Lighting

IND 5445C: Furniture Design

IND 5454C: Advanced Interior Design Detailing and Construction Documents

IND 5464C: Computer Applications in Three-Dimensional Design

IND 5466: Interior Environmental Technology

IND 5508: Business and Professional Practices for Interior Designers

IND 5638: Design Environments and Human Interaction

IND 5937: Current Topics in Interior Design

IND 6239: Advanced Topics in Interior Design Studio

IND 6639: Methods of Interior Design Research

IND 6906: Independent Studies and Readings

IND 6940: Supervised Teaching

IND 6941: Interior Design Internship

IND 6971: Research for Master's Thesis

Landscape Architecture Department

[College of Design, Construction, and Planning](#)

Chair: Gina Gurucharni

Graduate Coordinator: Kevin Thompson

Complete faculty listing by department: [Follow this link](#)

The mission of the Department of Landscape Architecture is to advance the ethical, creative, and skillful application of the art and the science of planning and designing urban, rural and natural environments. The Master of Landscape Architecture seeks excellence through professional practice and service, and through research and scholarly pursuit.

Interstate field trips are required as a part of the normal program curriculum. Students should plan to have adequate funds for field trips and for studio materials. Students are also required to own a laptop computer meeting minimum department requirements. These specifications are available through the department of Landscape Architecture's website at URL:

<http://www.dcp.ufl.edu/landscape>.

The Graduate program in Landscape Architecture offers flexibility in meeting the needs of applicants with varied backgrounds. Students entering the graduate program in landscape architecture follow one of the four following tracks:

Pre MLA Program

Graduate students who do not possess an LAAB accredited professional degree in landscape architecture are invited to enroll in the Pre MLA program.

The Pre MLA Program aids the development of basic analytical, design and graphic skills. Upon successful completion of the Pre MLA Summer term, students advance into a two-semester sequence of articulation courses that provide a foundation of applied landscape design and planning theory as well as competencies in landscape construction.

MLA Advanced Graduate Studies Program

Graduate students having completed the Pre MLA program or entering the MLA program with an LAAB accredited professional baccalaureate degree in Landscape Architecture commence a two year program of advanced graduate coursework towards the completion of the MLA degree.

MLA Program + Construction

Graduate students with a non-accredited or non-LAAB accredited degree in Landscape Architecture may apply directly to the MLA program but may be required to take additional coursework to develop core competencies required for advanced graduate study.

MLA Research Degree

Graduate students with an LAAB accredited professional degree in Landscape Architecture and a significant history of achievement in professional practice may tailor a program of advanced study to meet their specific needs. Proposals for the MLA Research Degree option are reviewed by the Graduate Coordinator and an approved course of study is determined through consultation with the Graduate Committee.

The normal tenure of advanced graduate study is five semesters which includes a summer semester internship. Students complete a minimum of 52 credit hours composed of lecture courses, seminars, design and construction studios, internship and individual study (special studies, supervised research and thesis or terminal project).

This time period would be extended should a student elect to expand the course work or seek a concurrent degree in a related field.

Design studios: Graduate design studios build on required lecture and seminar courses. A core of three advanced design studios are topically-oriented focusing on issues of human, ecological and regional concern. Each studio requires students to engage a method appropriate to the studio's selected projects, to analyze the findings generated by this research and to use the findings to build a rational argument that leads to a defensible design position. Interdisciplinary and multidisciplinary collaborations are encouraged on both a formal and an informal basis. Graduate studio projects also deal with current issues related to the mission of the Department with an additional focus on research and community service.

Thesis or terminal project: The Department recognizes that students have different professional goals and personal strengths and interests. A thesis is appropriate for students interested in further research or teaching, or in pursuing advanced degrees. A project (with a significant research component) is appropriate for students interested in design or project-oriented aspects of landscape architecture, or if their specific areas of interest suggest a nontraditional approach.

Programs, centers, and institutes: The College of Design, Construction, and Planning has several research centers and institutes. The course work and summer sessions afforded by these programs offer both required and elective course work for graduate students in landscape architecture:

The Center for Landscape Conservation Planning: The Center for Landscape Conservation Planning conducts applied research on the relationship between conservation and land use while providing learning opportunities for students.

The Center for International Design and Planning: The Center for International Design and Planning conducts interdisciplinary research with a focus on emerging design and planning trends in an era of globalization with a focus on resilient development systems and adaptive design and planning strategies.

The Preservation Institute: Nantucket gives students an opportunity to receive specialized educational experience in a broad range of preservation topics using Nantucket as a resource for case-study projects.

The Preservation Institute: Caribbean gives students an opportunity to conduct and apply research regarding the conservation of the rich cultural traditions of the Greater Caribbean basin.

The GEOPLAN Center is dedicated to the development of geographic and spatial information systems. Graduate students receive instruction in geographic information systems and are involved in a multidisciplinary studio that applies the tools and systems understanding afforded by GIS.

Graduate advisement: Students are initially advised by the Graduate Coordinator. He or she has guided the student's application through the acceptance process and is familiar with the student's background and needs. A plan of study is developed that includes required and optional courses. By the end of the second semester of study, each student is required to form a supervisory committee composed of two faculty members. The primary purpose of the graduate committee is to advise the student on educational objectives and the thesis or terminal project course work.

Application Procedure

Details of application procedure are found on the Department of Landscape Architecture's website. Applicants are encouraged to familiarize themselves with the details of the application procedures and the application requirements. Applications will ONLY be considered for the track for which they have been submitted. Make certain you are applying to the correct track based on your background and credentials and the criteria detailed above.

Application Dates

Applications are to be completed and submitted prior to the deadline noted on the Department's website. Unless otherwise noted, international applications must be received by November 1st. Applications from within the US are to be received no later than February 1st. Early applications are encouraged.

Application materials to be submitted online and/or to the Office of the Registrar

Application materials include the online application form accompanied by official transcripts, Letters of Recommendation, GRE scores, and TOEFL scores (applicants with English as a second language) to Office of the Registrar: Admissions Section, Criser Hall, University of Florida, Gainesville, Florida 32611.

Application Materials to be submitted directly to the Department

In addition to the materials submitted to the registrar's office, applicants must also submit a letter of intention to the Department of Landscape Architecture (Graduate Program Assistant).

Application Portfolio

All applicants are encouraged to submit a portfolio of creative works.

Post professional degree applicants applying for either the Pre MLA Fall Start or MLA Advanced Graduate Study program are required to submit a portfolio that both exhibits creative work experience and shows evidence of acquired technical proficiencies in the practice of landscape architecture.

All portfolio must be digital. PDF is preferred.

Application Status

Applications will be processed once all material has been received and must be complete prior to the application deadline. Applicants will be contacted by the Program Assistant if their application is incomplete. Please respond quickly if you have been contacted to increase the chances of your application being considered in the current review period. Only completed applications will be processed for review.

Once the application has been processed for review, applicants will receive written notification of their application status, generally sometime in the middle of March. Please do not contact the department with inquiries of your application status prior to the end of March.

Preparatory courses (see Undergraduate Catalog): LAA 2330, LAA 2350, LAA 2360, LAA 2370, LAA 3420, LAA 3350, LAA 3352, LAA 3421, LAA 3550, [LAA 6716](#), and ORH 3513.

LAA 5331: Site Design Methodologies

LAA 5366: Principles of Landscape Architecture

LAA 6231: Landscape Architecture Theory

LAA 6322: Project Management for Landscape Architects

LAA 6342: Landscape Architecture Criticism

LAA 6349C: Design Communications for Landscape Architects

LAA 6382: Ecological and Environmental Policy

LAA 6525L: Advanced Landscape Construction Design

LAA 6536: Landscape Management

LAA 6656C: Advanced Landscape Architectural Design

LAA 6713: Cultural Landscapes

LAA 6716: History of Landscape Architecture

LAA 6905: Directed Study

LAA 6931: Water Conservation through Site Design and Green Roofs

LAA 6931C: Special Topics

LAA 6933: Topics in European Design: Paris, France

LAA 6935: Gardens of the World

LAA 6941: Supervised Internship

LAA 6952C: European Landscape Architecture Studio

LAA 6971: Research for Master's Thesis

LAA 6979: Terminal Project

Latin American Studies Department

Director: C. D. Deere.

Graduate Coordinator: R. F. Brown.

Complete faculty listing by department: [Follow this link.](#)

The Center for Latin American Studies offers the following graduate programs:

- Latin American Studies
- Sustainable Development Practice

FOT 6940: Translation Studies Practicum

LAS 6008: Ecological Principles

LAS 6220: Issues and Perspectives in Latin American Studies

LAS 6290: Tropical Conservation and Development

LAS 6291: Conservation and Development Skills

LAS 6292: Tropical Conservation and Development Research Methods

LAS 6293: Design and Methods of Research in Latin American Studies

LAS 6295: Latin American Business Environment

LAS 6296: Latin American Business Topics

LAS 6905: Individual Work

LAS 6938: Seminar in Modern Latin American Studies

LAS 6940: Tropical Conservation and Development Practicum

LAS 6943: Development Theory and Practice in Latin America

LAS 6971: Research for Master's Thesis

Linguistics Department

Chair: F. McLaughlin

Graduate Coordinator: E. Potsdam

Complete faculty listing by department: [Follow this link](#)

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For detailed information on the program, please visit the link below. For further information on the program, including financial aid, please visit <http://lin.ufl.edu>.

EAP 5835: Academic Spoken English I

EAP 5836: Academic Spoken English II

EAP 5837: Academic Spoken English Tutorial

EAP 5845: Academic Writing

EAP 5846: Research and Technical Writing

EAP 5937: Special Topics in Academic Spoken English

LIN 5657: Gender and Language

LIN 5741: Applied English Grammar

LIN 6084: Introduction to Graduate Research

LIN 6165: Field Methods

LIN 6208: Phonetics for Linguists

LIN 6226: Advanced Phonetics

LIN 6323: Phonology

LIN 6341: Issues in Phonology

LIN 6402: Morphology

LIN 6410: Issues in Morphology

LIN 6501: Syntax

LIN 6520: Issues in Syntax

LIN 6571: Structure of Specific Language

LIN 6601: Sociolinguistics

LIN 6622: Bilingualism

LIN 6707: Psycholinguistics

LIN 6708C: Methods in Psycholinguistics

LIN 6720: Second Language Acquisition

LIN 6773: Topics in Computational Linguistics

LIN 6796: Cognitive Neuroscience of Language

LIN 6804: Semantics I

LIN 6826: Introduction to Formal Pragmatics

LIN 6856: Semantics II

LIN 6905: Individual Study

LIN 6910: Supervised Research

LIN 6932: Special Topics

LIN 6940: Supervised Teaching

LIN 6971: Research for Master's Thesis

LIN 7118: History of Linguistics

LIN 7641: Seminar in Language Variation

LIN 7725: Topics in Second Language Acquisition

LIN 7885: Discourse Analysis and Pragmatics

LIN 7979: Advanced Research

LIN 7980: Research for Doctoral Dissertation

TSL 6171: TESL I: Materials and Techniques

TSL 6172: TESL II: Materials for Special Purposes

M.E. Rinker, Sr., School of Construction Management

Director: Robert Ries

Director of Master's Programs: Robert E. Minchin

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary doctoral program in design, construction, and planning. Areas of specialization in the program include architecture, construction management, interior design, landscape architecture, and urban and regional planning. Within the area of construction management, specialization options include sustainable construction, information systems, construction safety, affordable housing, productivity, and human resource management. These specializations prepare students to assume college-level faculty positions and industry research positions in construction management and the building sciences. For more information on the Ph.D. program, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701. For information on the specializations in the Rinker School of Construction Management, write to the Director of Graduate and Distance Education, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703.

The M.E. Rinker Sr. School offers courses leading to the degrees of Master of Science in Construction Management (thesis), Master of Construction Management (nonthesis), and Master of International Construction Management (nonthesis distance education program for experienced professionals). An individual plan of study is prepared for each student to insure that the student's goals are achieved within the broad policy guidelines of the Rinker School. Specialization may be in such areas as construction management, sustainable construction, information systems, construction safety, and construction law. Requirements for the M.B.C., M.S.B.C., M.I.C.M., and Ph.D. degrees are given in the General Information section of this catalog.

Master of Construction Management (M.C.M.) or Master of Science in Construction Management (M.S.C.M.): To be eligible for admission to the M.C.M. or M.S.C. programs, a student must hold a 4-year undergraduate degree in building construction or its equivalent in related fields. "Equivalent in related fields" should include studies in construction materials and methods, structures, and management. Students with deficiencies in these related fields may need longer residence for the master's degree, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement.

No more than 3 credits of [BCN 6971](#) may be used to satisfy the credit requirements for the M.S.C.M. degree without written permission of the Director of Master's Programs.

Master of International Construction Management (M.I.C.M.): This program prepares students to assume upper-level management responsibilities in a multinational company. To be eligible for admission to the M.I.C.M. program, a student must have

- A 4-year undergraduate degree
- At least 5 years of meaningful, supervisory-level construction management experience
- Acceptable GRE scores (verbal and quantitative)
- A grade point average of 3.0 on a 4.0 scale
- Employer sponsorship
- International students must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

No more 3 credits of [ICM 6934](#) may be used to satisfy the credit requirements for the M.I.C.M. without written permission of the Director. All candidates are required to take ICM 6930. In addition to these 6 research-oriented graduate credit hours, the student selects one or two areas of emphasis and then takes the rest of the required 33 credit hours from the remaining courses and special electives. All candidates are required to pass a comprehensive oral and/or written examination at the completion of the course work and their master's research report/project.

The M.E. Rinker Sr. School reserves the right to retain student work for purposes of record, exhibition, or instruction.

Research facilities: The Shimberg Center for Housing Studies, operating within the School, researches the problems and possible solutions associated with developing and producing affordable housing. The Powell Center for Construction and the Environment conducts research on implementing sustainability in creating, operating, and constructing a built environment. The Fluor Program for Construction Safety researches and disseminates information on matters related to construction safety and health. The Center for Advanced Construction Information Modeling educates members of the AECO industry about new and emerging technologies in virtual design and construction.

Combined program: The School offers a combined bachelor's/master's degree program. Contact the Director of Master's Programs for information.

For more information, please see our website: <http://www.bcn.ufl.edu>.

BCN 5470: Construction Methods Improvements

BCN 5618C: Comprehensive Estimating

BCN 5625: Construction Cost Analysis

BCN 5705C: Project Management for Construction

BCN 5715: Advanced Construction Labor Problems

BCN 5722: Advanced Construction Planning and Control

BCN 5729: Design-Build Delivery Methods

BCN 5737: Advanced Issues in Construction Safety and Health

BCN 5754C: Site Development

BCN 5776: International Construction Business Management

BCN 5778: Facilities Operation and Maintenance

BCN 5789C: Construction Project Delivery

BCN 5905: Special Studies in Construction

BCN 5949: Graduate Construction Management Internship

BCN 5957: Advanced International Studies in Construction

BCN 6036: Research Methods in Construction

BCN 6580: High-Performance Green Building Delivery Systems

BCN 6585: Sustainable Construction

BCN 6586: Construction Ecology and Metabolism

BCN 6621: Bidding Strategy

BCN 6641: Construction Value Engineering

BCN 6748: Construction Law

BCN 6755: Construction Financial Management

BCN 6756: Housing Economics and Policy

BCN 6777: Construction Management Processes

BCN 6785: Construction Information Systems

BCN 6905: Directed Independent Study in Construction

BCN 6910: Supervised Research

BCN 6933: Advanced Construction Management

BCN 6934: Construction Research

BCN 6940: Supervised Teaching

BCN 6971: Research for Master's Thesis

FES 6705: Communications in Emergency Management

FES 6724: Fire and Emergency Services Response Planning

FES 6726: Hazard Mitigation and Preparedness

FES 6735: International Emergency/Disaster Management

FES 6736: Homeland Security and Emergency Management

FES 6786: Research Methods in FES

FES 6806: Disaster Response and Recovery

FES 6826: Emergency Services - Disaster Planning

FES 6827: Business Continuity and Disaster Planning

FES 6836: Impacts of Natural and Man-made Disasters on Buildings

FES 6916: Research for Master's Report

FES 6940: Practicum in FES

ICM 5905: Special Studies

ICM 6420: Commercial Management and Cost Control

ICM 6440: Construction Value Management

ICM 6680: Principles of International Sustainable Construction

ICM 6682: Construction Ecology and Metabolism

ICM 6684: High-Performance Green Building Delivery Systems

ICM 6710: Construction Human Resource Management

ICM 6750: Managing Construction Information Technology

ICM 6751: International Construction Management

ICM 6752: Construction Finance and Investment

ICM 6761: Advanced Planning, Scheduling, and Logistics

ICM 6762: Construction Risk Management

ICM 6770: Advanced Project Safety Management

ICM 6772: International Strategic Management

ICM 6905: Directed Independent Study in International Construction

ICM 6910: Supervised Research

ICM 6930: Construction Communication and Research

ICM 6934: International Construction Research

Management Department

[Warrington College of Business Administration](#)

Chair: Robert E. Thomas

Graduate Coordinator: Amir Erez

Complete faculty listing: [Follow this link.](#)

The Management Department offers graduate work leading to a Ph.D. degree with a major in Business Administration and a concentration in Management; a Master of Business Administration degree with a concentration in Management; a Master of Science degree with a major in Management; and a Master of International Business (M.I.B.). Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

The Department participates in combined bachelor's/master's degree programs for the Master of International Business (M.I.B.) and Master of Science (M.S.) with a major in management. The Master of International Business is open to students pursuing a bachelor's degree in a business discipline or minor in business administration. The M.S. with a major in management program is only open to non-business majors. Contact the graduate coordinator for information.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/mgt>.

BUL 5445: Ethical Role of the Manager

BUL 5810: Legal Environment of Business

BUL 5811: Managers and Legal Environment of Business

BUL 5831: Commercial Law

BUL 5832: Commercial Law for Accountants

BUL 6440: Business Ethics and Corporation Social Responsibility

BUL 6441: Business Ethics and Corporate Social Responsibility

BUL 6516: Law of Real Estate Transactions

BUL 6652: Law and Ethics of Corporate Governance

BUL 6656: Law for Entrepreneurs

BUL 6821: Cyberlaw and Ethics

BUL 6841: Employment Law

BUL 6851: International Business Law

BUL 6852: International Business Law

BUL 6891: Legal Aspects of Technology Management

BUL 6905: Individual Work

BUL 6930: Special Topics

ENT 6706: Global Entrepreneurship

MAN 5141: Leadership Skills

MAN 5245: Organizational Behavior

MAN 5246: Organizational Behavior

MAN 5265: Managing Groups and Teams

MAN 6107: Motivation in Organizational Setting

MAN 6128: Management Skills and Personal Development

MAN 6149: Developing Leadership Skills

MAN 6257: Power and Politics in Organizations

MAN 6266: Managing Groups and Teams in Organizations

MAN 6286: Managing Strategic Processes and Change in Organizations

MAN 6296: Designing Effective Organizations

MAN 6321: Human Resource Management

MAN 6331: Compensation in Organizations

MAN 6351: Training and Development in Organizations

MAN 6365: Organizational Staffing

MAN 6366: Organizational Staffing

MAN 6385: Strategic Human Resource Management

MAN 6446: Negotiations

MAN 6447: Art and Science of Negotiation

MAN 6537: Managing Technology in Organizations

MAN 6627: Cross Cultural Negotiation

MAN 6635: International Aspects of Human Resource Management

MAN 6636: Global Strategic Management

MAN 6637: Global Strategic Management

MAN 6721: Business Policy

MAN 6724: Strategic Management

MAN 6905: Individual Work in Management

MAN 6910: Supervised Research

MAN 6930: Special Topics

MAN 6940: Supervised Teaching

MAN 6957: International Studies in Management

MAN 6958: International Study Program

MAN 6973: Project in Lieu of Thesis

MAN 7108: Seminar in Research Concepts and Methods in Management

MAN 7109: Seminar in Motivation and Attitudes

MAN 7146: Seminar in Leadership

MAN 7207: Seminar on Foundations of Organizational Theory

MAN 7208: Seminar in Contemporary Approaches to Organizations

MAN 7267: Seminar on Groups and Teams Research

MAN 7275: Organizational Behavior

MAN 7328: Seminar on Staffing and Selection

MAN 7778: Seminar in Strategic Adaptation to Environment

MAN 7779: Strategic Processes and Structure in Organizations

MAN 7933: Seminar in Management

MAN 7979: Advanced Research

MAN 7980: Research for Doctoral Dissertation

Marketing Department

Chair: Joseph W. Alba

Graduate Coordinator: Lyle A. Brenner

Complete faculty listing: [Follow this link](#)

The Marketing Department at the University of Florida is a recognized leader in the discipline of marketing. For over a decade, our faculty has ranked as one of the most productive and influential in the field. Our faculty is known for conducting provocative, cutting-edge research that contributes both to the scientific understanding and practice of marketing. Our Ph.D. program has produced many leading researchers in the discipline. And the David F. Miller Center for Retailing Education and Research is known as one of the foremost centers for developing the science of retailing.

The Marketing Department offers graduate work leading to the Ph.D. degree in business administration, the M.S. degree in business administration, and a concentration in the Master of Business Administration (M.B.A.) program. Requirements for the M.B.A., M.S., and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/departments/mkt>.

MAR 5805: Problems and Methods in Marketing Management

MAR 5806: Problems and Methods in Marketing Management

MAR 6157: International Marketing

MAR 6158: International Marketing

MAR 6237: The Art and Science of Pricing

MAR 6256: Strategy and Tactics of Pricing

MAR 6335: Building and Managing Brand Equity

MAR 6456: Business-to-Business Marketing

MAR 6508: Customer Analysis

MAR 6646: Marketing Research for Managerial Decision Making

MAR 6648: Marketing Research for Managerial Decision Making

MAR 6722: Web-Based Marketing

MAR 6725: Introduction to Electronic Commerce

MAR 6816: Advanced Marketing Management (MBA)

MAR 6818: Advanced Marketing Management

MAR 6833: Product Development and Management

MAR 6834: Marketing of Science and Technology

MAR 6835: Marketing of Science and Technology

MAR 6837: Consumer-Centered Product Design

MAR 6861: Customer Relationship Management

MAR 6862: Customer Relationship Management

MAR 6905: Individual Work

MAR 6910: Supervised Research

MAR 6930: Special Topics in Marketing

MAR 6940: Supervised Teaching

MAR 6957: International Studies in Marketing

MAR 6971: Research for Master's Thesis

MAR 6973: Project in Lieu of Thesis

MAR 7507: Perspectives on Consumer Behavior

MAR 7588: Consumer Information Processing and Decision Making

MAR 7589: Judgment and Decision Making

MAR 7626: Multivariate Statistical Methods in Marketing

MAR 7636: Research Methods in Marketing

MAR 7666: Marketing Decision Models

MAR 7786: Marketing Literature

MAR 7925: Workshop in Marketing Research

MAR 7979: Advanced Research

MAR 7980: Research for Doctoral Dissertation

Materials Science and Engineering Department

Chair: S. Phillpot

MSE Graduate Coordinator: J. J. Mecholsky, Jr.

NE Graduate Coordinator: E. Dugan

Complete faculty listing by department: [Follow this link.](#)

The Department of Materials Science and Engineering offers the Master of Science and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

The faculties of the Department of Materials Science and Engineering (MSE) of the University of Florida (UF) and the University of Roma Tor Vergata (URTV) have approved a cooperative degree program in Materials Science and Engineering culminating in a Doctor of Philosophy degree, awarded by both universities. Contact the Department for details.

EMA 5008: Particle Science and Technology: Theory and Practice

EMA 5095: Critical Analysis of Research in Materials Science & Engineering

EMA 5108: Vacuum Science and Technology

EMA 5365: Biomimetic Synthesis

EMA 6001: Properties of Materials - A Survey

EMA 6005: Thin and Thick Films

EMA 6105: Fundamentals and Applications of Surface Science

EMA 6106: Advanced Phase Diagrams

EMA 6107: High Temperature Materials

EMA 6109: Physical Chemistry of High Temperature Materials

EMA 6110: Electron Theory of Solids for Materials Scientists I

EMA 6111: Electron Theory of Solids for Materials Scientists II

EMA 6114: Advanced Materials Principles 2

EMA 6128: Materials Microstructures

EMA 6136: Diffusion, Kinetics, and Transport Phenomena

EMA 6165: Polymer Physical Science

EMA 6166: Polymer Composites

EMA 6226: Synthesis and Properties of Metallic Nanostructures

EMA 6227: Advanced Mechanical Metallurgy II

EMA 6265: Mechanical Properties of Polymers

EMA 6313: Advanced Materials Principles I

EMA 6315: Colloidal Hydrodynamics

EMA 6316: Materials Thermodynamics

EMA 6319: Applied Colloid and Interfacial Chemistry for Engineers

EMA 6412: Synthesis and Characterization of Electronic Materials

EMA 6416: Organic Electronics

EMA 6445: Electroceramics

EMA 6446: Solid State Ionics

EMA 6448: Ceramic Processing

EMA 6461: Polymer Characterization

EMA 6507: Scanning Electron Microscopy and Microanalysis

EMA 6507L: Scanning Electron Microscopy and Microanalysis Lab

EMA 6510: Survey of Materials Analysis Techniques

EMA 6512C: X-ray Scattering for Thin Film Analysis

EMA 6518: Transmission Electron Microscopy

EMA 6518L: Transmission Electron Microscopy Laboratory

EMA 6519L: Specialized Research Techniques in Materials Science

EMA 6540: Fundamentals of Crystallography

EMA 6541: Applied Crystallography and Powder Diffraction

EMA 6580: Science of Biomaterials I

EMA 6581C: Polymeric Biomaterials

EMA 6589: Mechanical Behavior of Biomaterials

EMA 6590: Advances in Biomaterials and Tissue Engineering for Healthcare

EMA 6591: Clinical Applications of Biomaterials and Tissue Engineering

EMA 6616: Advanced Electronic Materials Processing

EMA 6625: Advanced Metals Processing

EMA 6667: Polymer Processing

EMA 6715: Fracture of Brittle Materials

EMA 6803: Classical Methods in Computational Materials Science

EMA 6804: Quantum Methods in Computational Materials Science

EMA 6805: Mathematical Methods in Materials Science I

EMA 6806: Mathematical Methods in Materials Science II

EMA 6808: Error Analysis and Optimization Methodologies in Materials Research**EMA 6905: Individual Work in Materials Science and Engineering****EMA 6910: Supervised Research****EMA 6936: Seminar in Materials Science and Engineering****EMA 6938: Special Topics in Materials Science and Engineering****EMA 6971: Research for Master's Thesis****EMA 7979: Advanced Research****EMA 7980: Research for Doctoral Dissertation****ENU 6805: Introduction to Nuclear Reactor Materials**

Mathematics Department

Chair: D. Cenzler

Graduate Coordinator: J. A. Larson

Complete faculty listing: [Follow this link.](#)

The Department of Mathematics offers the degrees of Doctor of Philosophy, Master of Science and Master of Arts, and the Master of Arts in Teaching and Master of Science in Teaching each with a major in mathematics. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

Interdisciplinary Programs — The Department offers a co-major program in conjunction with the Statistics Department leading to the Doctor of Philosophy degree in mathematics and statistics. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Statistics, Industrial and Systems Engineering, and Finance, Insurance, and Real Estate Departments.

Combined Program — The Department has an accelerated bachelor's/master's program designed for superior undergraduate students who have the ability to pursue such a plan of study leading to the Master of Science or Master of Arts degree. The main feature of the program is that up to 12 semester hours of approved graduate level mathematics courses may be used as dual credit for both the undergraduate and the graduate degree. All other requirements for both the bachelor's degree and the master's degree must be met. For admission requirements for this program, see the undergraduate coordinator.

There are opportunities for concentrated study in a number of specific areas of pure and applied mathematics at both the master's and doctoral levels. The faculty directs studies and research in algebra, number theory, analysis, geometry, topology, logic, differential equations, dynamical systems, probability theory, numerical analysis, numerical optimization, approximation theory, combinatorial analysis, graph theory, computer applications, biomathematics, mathematical physics, inverse problems, and medical imaging. In addition to the requirements of the Graduate School, the minimum prerequisite for admission to the program of graduate studies in mathematics is the completion, with an average grade of B or better, of at least 24 credits of undergraduate mathematics, including a full year of calculus and three semesters of appropriate work beyond the calculus. The most appropriate courses for this purpose are advanced calculus, linear algebra and abstract algebra. Students lacking part of the requirements will be required to make up the deficiency early in their graduate work. Prerequisites to individual courses should be determined before registration by consultation with the instructor concerned. Some of the courses listed are offered only as needed. Since times of offering courses are estimated a year in advance, certain changes may be made if needs are known by the Department. The courses [MAA 5228](#), [MAA 5229](#), [MAS 5311](#), and [MAS 5312](#) are required for all advanced degree programs in mathematics. The requirements for the master's degree nonthesis option include a minimum of 32 semester hours of course work. Students pursuing the master's degree in mathematics must pass two comprehensive written examinations, one in algebra and one in analysis. Students pursuing the master's degree with a specialization in applied mathematics have two options: the examination option requires passage of the algebra and analysis examinations; the thesis option requires instead the preparation and oral defense of a thesis on original research conducted under the supervision of a faculty adviser. Students pursuing the Master of Arts in Teaching or the Master of Science in Teaching degree must prepare a teaching portfolio and pass an oral examination. Each of these programs normally requires two years for completion. The requirements for a doctoral degree include 36 hours of 6000-level course work in mathematics; no hours of teaching, colloquium, dissertation, or individual work will count toward this requirement. To become a candidate for the doctoral degree, the student must pass a comprehensive preliminary examination with written and oral components administered by the Department. The doctoral student must also pass a reading knowledge examination in one of the following foreign languages: French, German, or Russian. The dissertation is an important requirement for the doctoral degree in mathematics. The topic for the dissertation may be chosen from a number of areas of current research in pure and applied mathematics. Every graduate student is expected to attend the regular colloquium. Details concerning all requirements for graduate degrees in mathematics may be obtained by writing the Mathematics Department Graduate Selection Committee or consulting the Department website, <http://www.math.ufl.edu>.

MAA 5104: Advanced Calculus for Engineers and Physical Scientists I**MAA 5105: Advanced Calculus for Engineers and Physical Scientists II****MAA 5228: Modern Analysis I****MAA 5229: Modern Analysis II****MAA 5404: Introduction to Complex Variables for Engineers and Physical Scientists****MAA 6236: Mathematical Analysis for Statisticians****MAA 6406: Complex Analysis I****MAA 6407: Complex Analysis II**

MAA 6616: Analysis I

MAA 6617: Analysis II

MAA 7526: Advanced Topics in Functional Analysis I

MAA 7527: Advanced Topics in Functional Analysis II

MAD 6206: Combinatorial Theory I

MAD 6207: Combinatorial Theory II

MAD 6406: Numerical Linear Algebra

MAD 6407: Numerical Analysis

MAD 7396: Topics in Combinatorial Theory I

MAD 7397: Topics in Combinatorial Theory II

MAE 6940: Supervised Teaching

MAE 6943: Internship in College Teaching

MAP 5304: Intermediate Differential Equations for Engineers and Physical Scientists

MAP 5345: Introduction to Partial Differential Equations

MAP 5489: Modeling in Mathematical Biology

MAP 6208: Numerical Optimization

MAP 6327: Applied Differential Equations I

MAP 6356: Partial Differential Equations I

MAP 6357: Partial Differential Equations II

MAP 6375: Numerical Partial Differential Equations

MAP 6376: Finite Element Method

MAP 6467: Stochastic Differential Equations and Filtering Theory I

MAP 6468: Stochastic Differential Equations and Filtering Theory II

MAP 6472: Probability and Potential Theory I

MAP 6473: Probability and Potential Theory II

MAP 6487: Biomathematics Seminar I

MAP 6488: Biomathematics Seminar II

MAP 6505: Mathematical Methods of Physics and Engineering

MAP 6506: Mathematical Methods of Physics and Engineering II

MAP 6941: Internship in Applied Mathematics

MAP 7436: Seminar in Applied Mathematics I

MAP 7437: Seminar in Applied Mathematics II

MAS 5311: Introductory Algebra I

MAS 5312: Introductory Algebra II

MAS 6331: Algebra I

MAS 6332: Algebra II

MAS 7215: Theory of Numbers I

MAS 7216: Theory of Numbers II

MAS 7396: Advanced Topics in Algebra I

MAS 7397: Topics in Algebra II

MAT 6905: Individual Work

MAT 6910: Supervised Research

MAT 6932: Special Topics in Mathematics

MAT 6971: Research for Master's Thesis

MAT 7979: Advanced Research

MAT 7980: Research for Doctoral Dissertation

MHF 5107: Introduction to Set Theory

MHF 5207: Foundations of Mathematics

MHF 6306: Mathematical Logic I

MHF 6307: Mathematical Logic II

MTG 5316: Introduction to Topology I

MTG 5317: Introduction to Topology II

MTG 5411: Introduction to Fractal Geometry

MTG 5412: Introduction to Dynamical Systems and Chaos

MTG 6256: Differential Geometry I

MTG 6257: Differential Geometry II

MTG 6346: Topology I

MTG 6347: Topology II

MTG 6401: Ergodic Theory and Dynamical Systems I

MTG 6402: Ergodic Theory and Dynamical Systems II

MTG 7396: Advanced Topics in Topology I

MTG 7397: Advanced Topics in Topology II

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn

Graduate Coordinator: D. W. Mikolaitis

Complete faculty listing by department: [Follow this link.](#)

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), Engineer, and Doctor of Philosophy in aerospace engineering and mechanical engineering. Minimum requirements for these degrees are given in the *General Information* section of this catalog. Additional information can be found at <http://www.mae.ufl.edu/graduate>. Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of challenging problems. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

BME 5580: Introduction to Microfluidics and BioMEMS

EAS 5938: Special Topics in Aerospace Engineering

EAS 6135: Molecular Theory of Fluid Flows

EAS 6138: Gasdynamics

EAS 6242: Advanced Structural Composites

EAS 6415: Guidance and Control of Aerospace Vehicles

EAS 6905: Aerospace Research

EAS 6910: Supervised Research

EAS 6935: Graduate Seminar

EAS 6939: Special Topics in Aerospace Engineering

EAS 6971: Research for Master's Thesis

EAS 7979: Advanced Research

EAS 7980: Research for Doctoral Dissertation

EGM 5005: Laser Principles and Applications

EGM 5111L: Experimental Stress Analysis

EGM 5121C: Data Measurement and Analysis

EGM 5533: Applied Elasticity and Advanced Mechanics of Solids

EGM 5584: Biomechanics of Soft Tissue

EGM 5816: Intermediate Fluid Dynamics

EGM 5933: Special Topics in Engineering Science and Mechanics

EGM 6006: Laser-Based Diagnostics

EGM 6321: Principles of Engineering Analysis I

EGM 6322: Principles of Engineering Analysis II

EGM 6323: Principles of Engineering Analysis III

EGM 6341: Numerical Methods of Engineering Analysis I

EGM 6342: Fundamentals of Computational Fluid Dynamics

EGM 6352: Advanced Finite Element Methods

EGM 6365: Structural Optimization

EGM 6570: Principles of Fracture Mechanics

EGM 6611: Continuum Mechanics

EGM 6671: Inelastic Materials

EGM 6812: Fluid Mechanics I

EGM 6813: Fluid Mechanics II

EGM 6855: Bio-Fluid Mechanics and Bio-Heat Transfer

EGM 6905: Individual Study

EGM 6910: Supervised Research

EGM 6934: Special Topics in Engineering Mechanics

EGM 6936: Graduate Seminar

EGM 6971: Research for Master's Thesis

EGM 7819: Computational Fluid Dynamics

EGM 7845: Turbulent Fluid Flow

EGM 7979: Advanced Research

EGM 7980: Research for Doctoral Dissertation

EML 5045: Computational Methods for Design and Manufacturing

EML 5104: Classical and Statistical Thermodynamics

EML 5124: Two-Phase Flow and Boiling Heat Transfer

EML 5131: Combustion

EML 5215: Analytical Dynamics I

EML 5223: Structural Dynamics

EML 5224: Acoustics

EML 5233: Failure of Materials in Mechanical Design

EML 5311: Control System Theory

EML 5318: Computer Control of Machines and Processes

EML 5455: Clean Combustion Technology

EML 5465: Energy Management for Mechanical Engineers

EML 5515: Gas Turbines and Jet Engines

EML 5516: Design of Thermal Systems

EML 5526: Finite Element Analysis and Application

EML 5595: Mechanics of the Human Locomotor System

EML 5598: Orthopedic Biomechanics

EML 5605: Advanced Refrigeration

EML 5714: Introduction to Compressible Flow

EML 6146: Microscale Heat Transfer

EML 6154: Conduction Heat Transfer

EML 6155: Convective Heat Transfer I

EML 6156: Multiphase Convection Heat Transfer

EML 6157: Radiation Heat Transfer

EML 6216: Analytical Dynamics II

EML 6229: Introduction to Random Dynamical Systems

EML 6267: Structural Dynamics of Production Machinery

EML 6278: Advanced Rotor Dynamics

EML 6281: Geometry of Mechanisms and Robots I

EML 6282: Geometry of Mechanisms and Robots II

EML 6323: Nontraditional Manufacturing

EML 6324: Fundamentals of Production Engineering

EML 6350: Introduction to Nonlinear Control

EML 6351: Nonlinear Control II: Adaptive Control

EML 6352: Optimal Estimation

EML 6365: Robust Control Synthesis

EML 6417: Solar Energy Utilization

EML 6451: Energy Conversion

EML 6606: Advanced Air Conditioning

EML 6905: Individual Projects in Mechanical Engineering

EML 6934: Special Topics in Mechanical Engineering

EML 6936: Nonthesis Project

EML 6971: Research for Master's Thesis

EML 7979: Advanced Research

EML 7980: Research for Doctoral Dissertation

Medicinal Chemistry Department

[College of Pharmacy](#)

Chair: M. O. James.

Graduate Coordinator: H. Luesch

Complete faculty listing by department: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy degree in pharmaceutical sciences with a concentration in medicinal chemistry. Medicinal chemistry is a unique blend of the physical and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active research include organic synthesis of medicinal agents, metal chelate design, prodrugs and topical drug delivery, drug metabolism, molecular toxicology, molecular biology, combinatorial chemistry, neurochemistry, analytical chemistry, molecular modeling, natural products, and drug discovery.

The applicant should have an undergraduate degree in pharmacy, chemistry, biology, or premedical sciences. A background in calculus and physical and organic chemistry is required. In addition to graduate medicinal chemistry courses in the College of Pharmacy, graduate courses in chemistry and biochemistry are required for the program.

The College also offers the Master of Science in Pharmacy degree in pharmaceutical sciences (nonthesis option) with concentrations in both forensic drug chemistry and forensic serology and DNA in a distance learning format. Minimum requirements for the M.S.P. and Ph.D. degrees are described in the *General Information* section of this catalog.

The Department participates in the interdisciplinary concentration in toxicology. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

PHA 5475: Synthesis of Prodrugs

PHA 6354: Natural Medicinal Products

PHA 6356: Structure Determination of Complex Natural Products

PHA 6357: Herbal & Dietary Supplements

PHA 6417: Pharmaceutical Analysis II

PHA 6425: Drug Biotrans and Molecular Mechanisms of Toxicity

PHA 6432: Fundamentals of Pharmaceutical Chemistry

PHA 6444: Pharmaceutical Chemistry I

PHA 6447: Drug Design

PHA 6448: High Throughput Drug Discovery

PHA 6471: Synthetic Medicinal Chemistry

PHA 6534: Toxicology of Chemical Weapons

PHA 6535: Principles of Nucleotide Activity

PHA 6543: Pharmaceutical Chemistry II

PHA 6556: Introduction to Clinical Toxicology

PHA 6557: Clinical Toxicology 1

PHA 6840: Medicinal Chemistry of Drugs of Abuse

PHA 6850: Principles of Forensic Science

PHA 6851: Forensic Analysis of DNA

PHA 6852: Mammalian Molecular Biology

PHA 6853: Biological Evidence and Serology

PHA 6854: Forensic Immunology

PHA 6855: Forensic Genetics

PHA 6856: Blood Spatter and Distribution

PHA 6905C: Research Procedures in Medicinal Chemistry

PHA 6934: Seminar in Medicinal Chemistry

Microbiology and Cell Science Department

Chair: E. Triplett.

Graduate Coordinator: Tony Romeo.

Complete faculty listing by department: [Follow this link.](#)

Graduate study is offered leading to the Master of Science and Doctor of Philosophy degrees in microbiology and cell science, with emphasis in one or more of the disciplines of biochemistry, cell biology, and microbiology.

Requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog and also at the Department webpage: <http://microcell.ufl.edu/>.

Instruction and guidance are collaborative among faculty in the Colleges of Agricultural and Life Sciences, Liberal Arts and Sciences, and Medicine.

Research spans broad areas in the cellular and molecular aspects of bacterial, plant, and animal life functions: Areas of research include microbial biochemistry, biotechnology; biomass conversion; genetic and metabolic regulation; environmental microbiology; cell biology; molecular biology; molecular genetics; genomics and bioinformatics; immunology; virology; parasitology, host-pathogen interactions; cellular ultrastructure.

Prerequisites for admission to graduate study, in addition to those of the Graduate School, are a broad educational background including mathematics, physics, and chemistry through organic, analytical, and physical chemistry; basic courses in biology, botany, and/or zoology; and at least one course in microbiology and biochemistry. An undergraduate major in biochemistry, physical or chemical science, engineering, or general biology may be an acceptable alternative to a degree in microbiology or cell science. Receipt of an advanced degree requires detailed knowledge in microbiology, biochemistry, and chemistry; undergraduate deficiencies may necessitate additional course work prior to entry into the graduate program.

In addition, the Microbiology and Cell Science Department also offers a combined B.S./M.S. program that allows qualified students to earn both the Bachelor's and Master's degrees with 12 credit hours of jointly counted course work. This program is considered a "4/1" because students may be awarded both degrees within a five-year period. For further information on this program, follow this link: <http://microcell.ufl.edu/graduate-program/combined-degree-program/>.

MCB 5205: Microbiology of Human Pathogens

MCB 5252: Microbiology, Immunology, and Immunotherapeutics

MCB 5305L: Microbial Genetics and Biotechnology Laboratory

MCB 5408: Anaerobic Microbiology and Biotechnology

MCB 5458: Energy Transformation in Microorganisms

MCB 5505: General Virology

MCB 6317: Molecular Biology of Gene Expression

MCB 6318: Comparative Microbial Genomics

MCB 6355: Microbial/Host Defense

MCB 6409: Microbial Cell Structure and Function

MCB 6417: Microbial Metabolism and Energetics

MCB 6457: Metabolic Regulation

MCB 6465: Microbial Metabolic Engineering

MCB 6485: Advanced Techniques in Microbiology and Cell Science

MCB 6772: Advanced Topics in Cell Biology

MCB 6905: Experimental Microbiology

MCB 6910: Supervised Research

MCB 6930: Seminar

MCB 6937: Special Topics in Microbiology

MCB 6940: Supervised Teaching

MCB 6971: Research for Master's Thesis

MCB 7922: Journal Colloquy

MCB 7979: Advanced Research

MCB 7980: Research for Doctoral Dissertation

Molecular Genetics and Microbiology Department

Chair: H. V. Baker.

Graduate Coordinator: A. S. Lewin.

Complete faculty listing by department: [Follow this link.](#)

The Graduate Faculty of the Department of Molecular Genetics and Microbiology participate in the interdisciplinary program (IDP) in medical sciences, leading to the Doctor of Philosophy degree, with specialization in one of the six advanced concentration areas of the IDP (see *Medical Sciences*). Departmental areas of research associated with the IDP focus on topical problems in molecular genetics, viral genetics, and viral and bacterial pathogenesis. Faculty in the Department of Molecular Genetics and Microbiology also participate in the M.S. programs (see *Medical Sciences*). In addition to courses associated with the IDP, the Department of Molecular Genetics and Microbiology maintains the courses listed below.

Biotechnology: This Master of Science program is for students seeking careers in the biomedical industry as research or managerial associates; students seeking careers as teachers or educators at any level, but primarily high school or junior college; or students seeking an in-depth understanding of modern biology and scientific research as an end in itself or in preparation for further graduate study. The foundation of the M.S. program is a basic understanding of molecular and cell biology and the performance of a high-quality research project, culminating in a thesis, under the direction of a skilled mentor, with supervision by a committee composed of members of the Graduate Faculty. Specialization may be in any of the fields of research being pursued at the College of Medicine including but not limited to molecular genetics, gene therapy, bacterial or viral pathogenesis, protein structure, toxicology, mammalian genetics, wound healing, and congenital eye diseases.

For more information contact the Master's Program Coordinator, Molecular Genetics and Microbiology, P.O. Box 100266, College of Medicine, Gainesville, FL 32610, Telephone (352)392-3314.

BME 5704: Advanced Computational Methods for Biomedical Engineering

GMS 6153: Advanced Bacterial Genetics

GMS 6169: Antimicrobial Strategies

GMS 6190: Seminar

GMS 6221: Ethics in Genetics

GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics

GMS 6251: Molecular Therapy I – Vectors and Molecular Mechanisms

GMS 6252: Molecular Therapy II – Disease Targets and Applications

GMS 6253: Molecular Therapy III – Immunology of Gene Transfer

GMS 6338: Recent Advances in Cancer Metastasis

GMS 6943: Master's Translational Biotechnology Internship

GMS 7093: Introduction to Clinical and Translational Research

GMS 7191: Research Conference

GMS 7194: Biotechnology Seminar

PCB 5235L: Experiments in Immunology

Music Department

[College of the Arts](#)

Director: J. A. Duff.

Graduate Coordinator: L. S. Odom.

Complete faculty listing by department: [Follow this link.](#)

The School of Music offers programs leading to the Master of Music degree in music and music education. Program concentrations in music include choral conducting, composition, instrumental conducting, musicology, ethnomusicology, music theory, performance, and sacred music. In addition, the School of Music offers the Doctor of Philosophy degree in music and in music education.

The Ph.D. program in music education emphasizes college music teaching. The Ph.D. program in music includes concentrations in:

- Music history and literature, with options in traditional musicology and ethnomusicology
- Composition, with options in acoustic and electroacoustic specialization

All Ph.D. students are encouraged to find opportunities to teach and lecture in their specializations; and with the assistance of their principal professors, to prepare papers, workshops, and clinics for presentation at professional conferences, in the public schools, and at colleges and universities. Students also are encouraged to publish their research in appropriate journals. Minimum requirements for the M.M. and Ph.D. degrees are given in the General Information section of this catalog. The week before classes begin, students must take placement examinations in music history and in music theory. Students wanting to study privately in a performance studio must be auditioned and accepted by the appropriate area faculty. Voice students must demonstrate appropriate skills in language and diction. All deficiencies must be remedied.

For more information, please see the program pages below and our website: <http://www.arts.ufl.edu/welcome/music>.

DIG 6288: Music and Sound Design for Digital Media

MUC 5315: Introduction to Electroacoustic Music

MUC 6444: Composition of Electronic Music

MUC 6445: Electroacoustic Music Composition: Digital I

MUC 6446: Electroacoustic Music Composition--Digital II

MUC 6900: Secondary Graduate Composition

MUC 6930: Graduate Composition

MUC 6932: Composition Seminar

MUC 7447: Advanced Seminar in Electroacoustic Music

MUC 7931: Advanced Graduate Composition

MUC 7938: Seminar in Digital Sound Processing, Control, and Composition

MUE 6080: Historical and Philosophical Foundations of Music Education

MUE 6385: Music in Higher Education

MUE 6399: Creative Thinking in Music

MUE 6444: Materials and Methods of String Class Teaching

MUE 6497: Public School Orchestral Literature

MUE 6647: Trends in Teaching and Learning Music

MUE 6696: Technology Assisted Music Learning

MUE 6747: Assessing Music Learning

MUE 6785: Research in Music Education

MUE 6790: Capstone Project for Music Education

MUE 6931: Instructional Design in Music Education

MUE 7746: Measurement and Evaluation of Music

MUE 7938: Music Education Seminar

MUG 6105: Graduate Conducting

MUG 7106: Advanced Graduate Conducting

MUH 5219: Graduate Music History Review

MUH 5505: Introduction to Ethnomusicology

MUH 5684: Introduction to Historical Musicology

MUH 6526: American Vernacular Music

MUH 6545: The Guitar in Latin American Culture

MUH 6548: Seminar in Caribbean Music

MUH 6549: Seminar in Brazilian Music

MUH 6635: Seminar in American Music

MUH 6665: History of Opera

MUH 6671: Seminar in Renaissance Music

MUH 6672: Seminar in Baroque Music

MUH 6673: Seminar in Classical Music

MUH 6674: Seminar in Nineteenth-Century Music

MUH 6675: Seminar in Twentieth-Century Music

MUH 6931: Nationalism in Music

MUH 6935: Special Topics in Music History

MUH 7411: Medieval and Renaissance Notation

MUH 7938: Musicology Seminar

MUL 6435: String Literature

MUL 6486: Piano Literature

MUL 6495: Graduate Organ Literature

MUL 6555: Survey of Wind Literature

MUL 6565: Chamber Music Literature

MUL 6645: Choral Literature

MUN 6010: Graduate Ensemble

MUN 6125: Concert Band

MUN 6135: Symphonic Band

MUN 6145: Symphonic Wind Ensemble

MUN 6215: University Orchestra

MUN 6315: University Choir

MUN 6325: Women's Chorale

MUN 6335: Men's Glee Club

MUN 6445: Percussion Ensemble

MUN 6495: Steel Drum Ensemble

MUN 6496: World Music Ensemble

MUN 6497: New Music Ensemble

MUN 6715: Jazz Band

MUR 6206: Survey of Hymnody

MUR 6705: Sacred Music Literature

MUS 5911: Directed Study

MUS 6685: Psychology of Music

MUS 6716: Methods of Musical Research and Bibliography

MUS 6905: Projects and Problems

MUS 6910: Supervised Research

MUS 6940: Supervised Teaching

MUS 6971: Research for Master's Thesis

MUS 6973: Individual Project

MUS 7656: Teaching Music and the Creative Process

MUS 7905: Projects and Problems

MUS 7979: Advanced Research

MUS 7980: Research for Doctoral Dissertation

MUT 6051: Graduate Music Theory Review

MUT 6445: Advanced Counterpoint

MUT 6531: Figured Bass and Continuo Performance

MUT 6565: Late Nineteenth- and Twentieth-Century Styles

MUT 6576: Contemporary Styles

MUT 6617: Approaches to Theoretical Analysis in Music Education

MUT 6624: Seminar in Set Theory

MUT 6627: Seminar in Reductive Analysis

MUT 6629: Analytical Techniques

MUT 6751: Pedagogy of Music Theory

MUT 6936: Music Theory Seminar

MUT 7316: Advanced Orchestration

MUT 7585: Seminar in Musical Style

MUT 7760: History of Music Theory

MVK 5156: Improvisational Keyboard Skills and Related Technology

MVK 6605: Organ Pedagogy

MVK 6651: Piano Pedagogy

MVK 6661: Advanced Piano Pedagogy

MVO 6250: Secondary Music Performance

MVO 6460: Music Performance

MVO 7460: Music Performance**MVS 6651: String Pedagogy I****MWV 6651: Vocal Pedagogy****Nuclear and Radiological Engineering Department**

Chair: D. Hintenlang

Graduate Coordinator: W. Bolch

Complete faculty listing: [Follow this link.](#)

The Department offers the degrees of Master of Science, Master of Engineering, and Doctor of Philosophy in nuclear engineering sciences with emphases in nuclear power engineering, medical physics, and health physics. Complete descriptions of the minimum requirements for these degrees are provided in the *General Information* section of this catalog.

The medical physics and health physics options are offered through interdepartmental programs in cooperation with the College of Medicine (see the *Health Physics and Medical Physics* description under *Interdisciplinary Graduate Studies*).

Combined Program — The Department also offers a B.S.N.E./M.S. degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students may begin their master's program while seniors counting 12 hours of specified nuclear engineering sciences graduate courses for both the bachelor's and master's degree requirements. Seniors admitted to the combined program are eligible for teaching and research assistantships. Program admission requirements are (1) satisfaction of Graduate School admission requirements for a master's degree, (2) an upper-division (undergraduate) GPA of at least 3.6, and (3) completion of specified bachelor's degree requirements.

The graduate program has two major programs, Nuclear Engineering and Medical Physics. Specific areas of research and study in Nuclear Engineering include advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security. The Medical Physics program is a CAMPEP accredited program designed to meet the professional requirements for a career in clinical service or research and development. Areas of Medical Physics study and research include diagnostic medical imaging, radiation therapy, nuclear medicine imaging, and radiation dosimetry.

The requirement for admission to the graduate program in nuclear engineering sciences is a bachelor's degree in an approved program in engineering or in the sciences. Students applying to the Medical Physics program should have completed the equivalent of at least a minor in physics. If the student's background is considered deficient for the planned course of study, an articulation program of background courses will be required.

Depending on professional objectives, the student may select a non-thesis option for the MS degree and substitute 8 credits of graduate-level course work, of which at least 6 credits are in nuclear engineering sciences, including a 4-credit (minimum) special project, [ENU 6936](#). Completion of 32 credits will meet the minimum requirements for the non-thesis MS degree.

Normally, the requirements for a master's degree can be completed in 12 months. Students in the medical physics option usually take 21 to 24 months to complete the master's degree, which requires 40-42 credit hours. For a master's degree in health physics, a student must complete 42 hours of credit. If articulation work is required, it may take longer, depending upon the extent of the student's deficiency.

ENU 5142: Reliability and Risk Analysis for Nuclear Facilities**ENU 5176L: Principles of Nuclear Reactor Operations Laboratory****ENU 5186: Nuclear Fuel Cycles****ENU 5196: Nuclear Reactor Power Plant System Dynamics and Control****ENU 5516L: Nuclear Engineering Laboratory II****ENU 5615C: Nuclear Radiation Detection and Instrumentation****ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab****ENU 5626: Radiation Biology****ENU 5658: Imaging System Analysis with Medical Physics Applications****ENU 5705: Advanced Concepts for Nuclear Energy****ENU 6051: Radiation Interaction Basics and Applications I****ENU 6052: Radiation Transport Basics and Applications****ENU 6053: Radiation Interaction Basics and Applications II****ENU 6061: Survey of Medical Radiological Physics****ENU 6106: Nuclear Reactor Analysis I****ENU 6107: Nuclear Reactor Analysis II**

ENU 6126: Fundamentals of Reactor Kinetics

ENU 6135: Nuclear Thermal Hydraulics

ENU 6623: Radiation Dosimetry

ENU 6627: Therapeutic Radiological Physics

ENU 6636: Medical Radiation Shielding & Protection

ENU 6651: Clinical Rotation in Radiation Therapy

ENU 6655: Advanced Diagnostic Radiological Physics

ENU 6659: Nuclear Medicine Instrumentation and Procedure

ENU 6835: Nuclear Fuels

ENU 6905: Individual Work

ENU 6910: Supervised Research

ENU 6935: Nuclear and Radiological Engineering Seminar

ENU 6936: Special Projects in Nuclear and Radiological Engineering Sciences

ENU 6937: Special Topics in Nuclear and Radiological Engineering Sciences

ENU 6971: Research for Master's Thesis

ENU 6972: Research for Engineer's Thesis

ENU 7979: Advanced Research

ENU 7980: Research for Doctoral Dissertation

Occupational Therapy Department

Chair: W. C. Mann.

Graduate Coordinator: C. A. Velozo, J.J. Foss.

Complete faculty listing by department: [Follow this link.](#)

The Department of Occupational Therapy offers graduate programs in occupational therapy leading to the Master of Health Science (M.H.S.) degree (on-campus nonthesis and thesis options and distance learning nonthesis option) and the entry-level Master of Occupational Therapy (M.O.T.) degree. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

Master of Health Science: This program is designed for students who have earned an undergraduate degree in Occupational therapy. The thesis option requires four semesters of course work and a formal research thesis, while the nonthesis option requires three semesters of course work and a research project. The program emphasizes research and advanced theories related to occupational therapy practice. Preparation for teaching, administrative, and other occupational therapy roles is supplemented through elective courses. A coherent series of elective courses related to occupational therapy must be approved by the supervisory committee chairperson before the second semester of work.

In addition to the requirements of the Graduate School, admission requires the candidate to have completed a curriculum in occupational therapy accredited by the American Occupational Therapy Association or by the World Federation of Occupational Therapists.

The distance learning degree option for the Master of Health Science is specifically intended to meet the needs of the working professional. The nonthesis program is designed to improve the knowledge and skills of working occupational therapists for practice in a complex and challenging health care system. It provides preparation for new practice areas, leadership roles, and independent practice and is delivered through the Internet. In addition to the departmental requirements listed above, applicants to the distance learning program must have basic personal computer competency and access to a computer that meets minimal configuration requirements.

Additional information about the Master of Health Science is available at <http://www.hp.ufl.edu> or <http://gradschool.rgp.ufl.edu> or by telephone at (352)273-6817. For distance learning, see <http://otdlmphp.ufl.edu/> or call toll free (866)878-3297.

Master of Occupational Therapy: This entry-level degree program is designed for students who do not have an undergraduate degree in occupational therapy. The program provides students with a holistic perspective, including an understanding of the philosophical and theoretical bases for practice in the current health care environment. The M.O.T. program provides a strong background in theory, assessment, and therapeutic interventions. Before their professional preparation in the M.O.T. program, students receive a liberal education in their pre-professional baccalaureate studies, including several courses specifically focused for students planning to enter the M.O.T. program. Students may enroll in courses in the Bachelor of Health Science degree program at the bachelor's level, or they may complete these courses on a postbaccalaureate level before starting the M.O.T. program. Students are only admitted into the M.O.T. program in summer term and graduate at the end of the fall term after 1.33 years of full-time study (5 semesters) and 58 credits.

Admission requirements include completion of an undergraduate degree and the prerequisite course work. Three letters of reference and a letter of application are required by the Department. Additional information is available at <http://www.phhp.ufl.edu/ot/> and <http://gradschool.rgp.ufl.edu> or by telephone (352)273-6817.

This program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association. The address for ACOTE is 4720

Montgomery Lane, Box 31220, Bethesda, MD, 20814-1220. The phone number is (301) 652-2632. Graduates of the program are eligible to sit for the national certification exam administered by the National Board for Certification in Occupational Therapy (NBCOT). The website address of NBCOT is www.nbcot.org.

OTH 5002: Foundations of Occupational Therapy

OTH 5115C: Therapeutic Skills II: Areas of Occupation

OTH 5324: Psychosocial Intervention

OTH 5435: Therapeutic Skills I

OTH 5722: Professional Development in Occupational Therapy

OTH 5726C: Service Delivery and OT Management

OTH 5770C: Research for Occupational Therapy

OTH 5812: Practicum I

OTH 5816: Practicum II

OTH 5848: Internship I

OTH 5849: Internship II

OTH 6008: Neuroscience of Human Occupation

OTH 6106: Assistive Technology and Occupational Performance

OTH 6539: Occupational Therapy Theory

OTH 6635: Principles of Occupational Therapy Screening and Evaluation I

OTH 6636: Principles of Occupational Therapy Screening and Evaluation II

OTH 6641: Occupational Therapy Interventions I

OTH 6642: Occupational Therapy Interventions II

OTH 6707: OT Manager

OTH 6708: Issues in Occupational Therapy Practice I

OTH 6709: Issues in Occupational Therapy Practice II

OTH 6720: Trends and Issues in Health Care

OTH 6763: Evidence Based Practice

OTH 6861: Specialty Internship

OTH 6905: Individual Work

OTH 6907: Professional Development Project

OTH 6933: Special Topics in Occupational Therapy

OTH 6971: Research for Master's Thesis

Pharmaceutical Outcomes and Policy Department

Chair: R. Segal

Graduate Coordinator: A. Winterstein

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree. Complete descriptions of the requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog

PHA 5270: Health Care and Patient Safety

PHA 5271: Health Care Risk Management

PHA 5272: Risk Management, Liability and Compliance

PHA 6206: Introduction to Pharmaceutical Microeconomics

PHA 6227: Institutional Pharmacy Leadership I

PHA 6228: Institutional Pharmacy Leadership II

PHA 6236: Health Sciences Liability Law

PHA 6250: Patient Responsibility in Health Care

PHA 6264: Pharmacoeconomics and Health Technology Assessment

PHA 6265: Introduction to Pharmaceutical Outcomes and Policy I

PHA 6266: Introduction to Pharmaceutical Outcomes and Policy II

PHA 6268: Pharmacoepidemiology and Patient Safety

PHA 6269: Pharmaceutical Products and Public Policy

PHA 6273: Structure, Process, and Outcomes of Regulation

PHA 6274: Federal Regulations of Drugs and Pharmacy

PHA 6275: Federal Regulations of Controlled Substances

PHA 6276: Regulating Pharmaceutical Access and Costs

PHA 6277: Ethics in Drug Development Production and Use

PHA 6278: State Regulation of Drugs and Pharmacy

PHA 6279: Pharmaceutical Outcomes and Policy Seminar

PHA 6280: Medicare and Medicaid

PHA 6281: Practices and Procedures of Administrative Agencies

PHA 6282: Pharmaceutical Policy Process

PHA 6283: Commercial Applications of Pharmacoeconomics

PHA 6286: Pharmaceutical Microeconomics

PHA 6287: Pharmaceutical Health Economics

PHA 6288: Critical Review of Research Methods

PHA 6289: Regulating Clinical Research

PHA 6290: Pharmaceutical Fraud and Abuse

PHA 6291: Pharmaceutical Health Care Systems

PHA 6717: Measurement in Pharmacy Administration Research

PHA 6793: Evidentiary Basis of Pharmaceutical Use

PHA 6796: Study Design in Pharmaceutical Outcomes & Policy Research

PHA 6798: The Use and Abuse of Statistics in Drug Regulation

PHA 6799: Patient Safety Program Evaluation

PHA 6805: Applied Data Interpretation and Reporting of Findings in Pharmacy

PHA 6806: Pharmacoeconomic Modeling

PHA 6860: Prevention of Pharmaceutical Crimes

PHA 6891: Introduction to Pharmacoepidemiology

PHA 6892: Practices and Procedures of the IRB

PHA 6893: Research Ethics

PHA 6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology

PHA 6937: Topics in Pharmaceutical Administration

Pharmaceutics Department

Chair: H. C. Derendorf.

Graduate Coordinator: A. Palmieri III.

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmaceutics offers the Doctor of Philosophy in pharmaceutical sciences. Pharmaceutics is the scientific endeavor concerned with the design, formulation, evaluation, and use of drug delivery systems. A foundation in physical chemistry, chemistry, mathematics, and in the life sciences, is necessary. Its domain extends from studies of the physiochemical properties of drugs and related molecules to investigations of the mechanisms of physiological processes affecting drug delivery and therapeutic effectiveness. The Department's general focus involves studying the design and evaluation of traditional and novel dosage forms for delivering drug molecules and macromolecules. The design involves physical chemical studies and development of analytical techniques involving spectroscopy and chromatography. Evaluation includes development of sensitive analytical techniques for the drug in biological fluids and subsequent biopharmaceutical and clinical pharmacokinetic studies.

PHA 6116: In Vivo and In Vitro Stability of Drugs

PHA 6118: Molecular Diversity

PHA 6125: Pharmacokinetics and Biopharmaceutics

PHA 6170C: Pharmaceutical Product Formulation

PHA 6183: Pharmaceutical Gene Delivery

PHA 6185: Pharmaceutical Drug Development

PHA 6416: Pharmaceutical Analysis I

PHA 6427: Pharmacogenetics of Drug Metabolism

PHA 6440: Seminar in Drug Discovery

PHA 6449: Pharmacogenomics

PHA 6630: Medication Therapy Management: A Hematologic Focus

PHA 6631: Foundations of Medication Therapy Management I

PHA 6632: Foundations of Medication Therapy Management II

PHA 6633: Medication Therapy Management: A Cardiovascular Focus

PHA 6634: Medication Therapy Management: An Endocrine Focus

PHA 6635: Medication Therapy Management: A Renal Focus

PHA 6636: Medication Therapy Management: A Gastrointestinal Focus

PHA 6637: Medication Therapy Management: A Psychiatric Focus

PHA 6638: Medication Therapy Management: A Neurologic Focus

PHA 6639: Medication Therapy Management: A Respiratory Focus

PHA 6894: Introduction to Graduate Studies

PHA 6896: Preclinical Drug Evaluation

Pharmacodynamics Department

Chair: M. Keller-Wood.

Interim Graduate Coordinator: Joanna Peris

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see *Interdisciplinary Graduate Studies* in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

PHA 5531: Neurotoxicology

PHA 6508: Systems Physiology and Pathophysiology I

PHA 6509: Systems Physiology and Pathophysiology II

PHA 6512L: Experiential Research Training in Pharmacodynamics

PHA 6521C: Research Techniques in Pharmacodynamics

PHA 6522L: ICBR Molecular Techniques Laboratory

PHA 6540: Neurochemical Foundation of Pharmacodynamics

PHA 7939: Journal Colloquy in Pharmacodynamics

Pharmacotherapy and Translational Research Department

For a full list of faculty, please [follow this link](#).

Description to be added

PHA 7979: Advanced Research

PHA 7980: Research for Doctoral Dissertation

Philosophy Department

Chair: G. Witmer.

Graduate Coordinator: C. Liu.

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Arts and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog.

Admission to the program requires a bachelor's degree in philosophy or sufficient course work in philosophy, as determined by the department. Applicants are evaluated on the basis of academic achievement, GRE scores, three letters of recommendation, a statement of purpose, and a sample essay in philosophy. Students may be admitted as for a terminal M.A. degree or for the Ph.D. Program.

The M.A. degree requires two years (36 hours) of course work. All graduate students take foundational courses in their first four semesters: the graduate Proseminar (PHI [PHI 5935](#)), Graduate Logic (PHI [5135](#)), a course in Ancient Philosophy (PHP [5005](#) or PHP [5015](#)), a course in Modern Philosophy (PHI [5405](#) or PHI [5406](#)), and either Foundations of Analytic Philosophy (PHP [5785](#)) or Epistemology (PHI [5365](#)).

The Ph.D. requires 90 credit hours, which may include 36 used as credit for the M.A. In addition to the foundational courses required for the M.A., the Ph.D. requires Ethical Theory (PHI [5665](#)) and both of PHP [5785](#) and PHI [5365](#). It also requires six courses at the advanced 6000-level, 3 proposal research hours and 12 doctoral research hours, and of course the successful completion and defense of a dissertation.

Further information about the department's programs and admissions can be obtained on the department's website web.phil.ufl.edu or by contacting the Graduate Coordinator, 330 Griffin-Floyd Hall, (352)392-2084 or gradcoord@phil.ufl.edu.

PHH 5405: Modern Philosophy I

PHH 5406: Modern Philosophy II

PHH 5605: Studies in Continental Philosophy

PHH 6105: Seminar in Ancient Philosophy

PHH 6425: Seminar in Modern Philosophy

PHI 5135: Graduate Logic

PHI 5225: Philosophy of Language

PHI 5325: Philosophy of Mind

PHI 5365: Epistemology

PHI 5405: Philosophy of Science

PHI 5425: Philosophy of Social Science

PHI 5505: Metaphysics

PHI 5665: Ethical Theory

PHI 5905: Individual Work

PHI 5934: Topics in Philosophy

PHI 5935: Proseminar

PHI 6105: Seminar in Logic

PHI 6226: Seminar in Philosophy of Language

PHI 6306: Seminar in Epistemology

PHI 6326: Seminar in Philosophy of Mind

PHI 6406: Seminar in Philosophy of Science

PHI 6506: Seminar in Metaphysics

PHI 6667: Seminar in Ethics

PHI 6787: Seminar in Continental Philosophy

PHI 6905: Individual Work

PHI 6910: Supervised Research

PHI 6934: Special Topics

PHI 6940: Supervised Teaching

PHI 6971: Research for Master's Thesis

PHI 7979: Advanced Research

PHI 7980: Research for Doctoral Dissertation

PHP 5005: Ancient Philosophy I

PHP 5015: Ancient Philosophy II

PHP 5785: Foundations of Analytic Philosophy

PHP 6415: Seminar in Kant

PHP 6795: Seminar in Analytic Philosophy

PHP 6930: Seminar in a School or Thinker

Physics Department

[College of Liberal Arts and Sciences](#)

Chair: Kevin Ingersent

Graduate Coordinator: Guido Mueller

Complete faculty listings: [Follow this link](#).

The Department of Physics offers the Master of Science (thesis or nonthesis) and the Doctor of Philosophy degrees. The nonthesis Master of Science in Teaching is also offered. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Areas of specialization for graduate research include astrophysics and cosmology, atomic and molecular physics, biological physics, chemical physics, condensed matter physics (theory and experiment), nuclear physics, particle physics (theory and experiment), statistical physics, and low temperature physics.

Special interdisciplinary research programs include the Institute for Fundamental Theory (carried out jointly with the Department of Mathematics), the Institute for Theoretical and Computational Studies in Molecular and Materials Science (carried out jointly with the Department of Chemistry), the Institute of High Energy and Particle Astrophysics, and Microfabritech (jointly with the College of Engineering). A curriculum is offered by the Center for Chemical Physics for students interested in research related to chemistry or chemical engineering. The Center for Condensed Matter Sciences provides opportunities for investigations in a diverse range of subjects and fields, including the Microkelvin Research Laboratory. The University of Florida operates the National High Magnetic Field Laboratory jointly with Florida State University and Los Alamos National Laboratory.

The core curriculum is designed to provide a thorough foundation for all physics graduate students. It consists of [PHY 6246](#), [PHY 6346](#), [PHY 6347](#), [PHY 6536](#), [PHY 6645](#), and [PHY 6646](#). Doctoral students must achieve a 3.30 GPA in the core curriculum. All students must pass a preliminary examination at the undergraduate level. All degree candidates are required, as part of their graduate education, to participate continuously in the research and/or teaching programs of the Department.

For more information, please see the program page below, and visit our website: <http://www.phys.ufl.edu>.

PHY 5277: Physics of Accident Reconstruction and Biomechanics

PHY 5905: Individual Work

PHY 6246: Classical Mechanics

PHY 6346: Electromagnetic Theory I

PHY 6347: Electromagnetic Theory II

PHY 6536: Statistical Mechanics I

PHY 6555C: Cryogenics

PHY 6645: Quantum Mechanics I

PHY 6646: Quantum Mechanics II

PHY 6648: Quantum Field Theory I

PHY 6905: Individual Work

PHY 6910: Supervised Research

PHY 6920: Departmental Colloquium

PHY 6932: Seminar in Molecular and Computational Physics

PHY 6943: Internship in College Teaching

PHY 6971: Research for Master's Thesis

PHY 7097: Advanced Topics in Theoretical Physics

PHY 7669: Quantum Field Theory II

PHY 7939: Special Topics

PHY 7979: Advanced Research

PHY 7980: Research for Doctoral Dissertation

PHZ 5155C: Physical Modeling and Simulation

PHZ 5245: Introduction to Magnetic Resonance

PHZ 5354: Introduction to Particle Physics

PHZ 5405: Introduction to Solid-State Physics

PHZ 6156: Computer Methods in Physics

PHZ 6166: Qualitative Methods of Theoretical Physics

PHZ 6355: Elementary Particle Physics I

PHZ 6358: Standard Model of Elementary Particles I

PHZ 6391: Seminar in Astrophysics

PHZ 6392: Seminar in Particle Physics

PHZ 6426: Solid State I

PHZ 6493: Seminar in Condensed Matter Physics

PHZ 6607: Special and General Relativity

PHZ 7357: Elementary Particle Physics II

PHZ 7359: Standard Model of Elementary Particles II

PHZ 7427: Solid State II

PHZ 7428: Modern Condensed Matter Physics

PHZ 7429: Phases of Condensed Matter

PHZ 7608: Special and General Relativity II

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Complete faculty listing by department: [Follow this link.](#)

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

PCB 5136L: Techniques in Microbial and Cell Biology

PCB 5530: Plant Molecular Biology and Genomics

PCB 6528: Plant Cell and Developmental Biology

PCB 6910: Supervised Research

PCB 6937: Special Topics in Plant Molecular and Cellular Biology

PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology

PHC 6764: Global Public Health and Development I

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Plant Pathology Department

Chair: R. Loria

Graduate Coordinators: J. Jones

Complete faculty listing by department: [Follow this link](#).

The Department of Plant Pathology offers graduate studies leading to the Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees. The Department also participates in the Doctor of Plant Medicine interdisciplinary professional degree.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

PLP 5005C: General Plant Pathology

PLP 5102: Theory and Practice of Plant Disease Control

PLP 5115C: Citrus Pathology

PLP 5155: Microbiological Control of Plant Diseases and Weeds

PLP 6223C: Viral Pathogens of Plants

PLP 6241C: Bacterial Plant Pathogens

PLP 6262C: Fungal Plant Pathogens

PLP 6291: Plant Disease Diagnosis

PLP 6303: Host-Parasite Interactions II

PLP 6404: Epidemiology of Plant Disease

PLP 6502: Host-Parasite Interactions I

PLP 6621C: Pop Genetics Microbes

PLP 6656C: Fungal Biology

PLP 6905: Problems in Plant Pathology

PLP 6910: Supervised Research

PLP 6921: Colloquium in Principles of Plant Pathology

PLP 6932: Seminar in Plant Pathology

PLP 6940: Supervised Teaching

PLP 6942: Professional Internship in Plant Disease Clinic

PLP 6971: Research for Master's Thesis

PLP 7946: Plant Pathology Internship

PLP 7979: Advanced Research

PLP 7980: Research for Doctoral Dissertation

Political Science Department

Chair: Ido Oren

Graduate Coordinator: Daniel Smith

Complete faculty listing: [Follow this link.](#)

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) or follow the hyperlinks below to more information about the specific programs offered.

CPO 5935: Advanced Topics in Comparative Politics

CPO 6046: Politics in Advanced Industrial Societies

CPO 6059: Democracy and Its Competitors

CPO 6077: Social Movements in Comparative Perspective

CPO 6091: Introduction to Comparative Political Analysis

CPO 6206: Seminar in African Politics

CPO 6307: Latin American Politics I

CPO 6732: Democratization and Regime Transition

CPO 6736: Post-Communist politics

CPO 6756: Comparative Elections and Party Systems

CPO 6757: The European Union In Comparative Perspective

CPO 6786: Peasant Politics and Society

CPO 6795: Environmental Politics

CPO 6796: Water Politics

INR 5935: Advanced Topics in International Relations

INR 6036: Globalization, Regionalism, and Governance

INR 6039: International Political Economy

INR 6208: Advanced International Relations Theory

INR 6213: Seminar: Politics of the European Union

INR 6249: Inter-American Relations

INR 6305: Politics of American Foreign Policy Making

INR 6337: Survey of International Security

INR 6352: International Environmental Relations

INR 6507: International Organization

INR 6607: International Relations Theory

INR 6936: Seminar in Transnational and Global Studies

INR 6938: Seminar in Culture and World Politics

PAD 5935: Advanced Topics in Public Administration

PAD 6108: Public Administration Theory

PAD 6227: Public Budgeting and Finance

PAD 6434: Leadership and Ethics in Public Agencies

PAD 6946: Internship in Government

POS 5935: Advanced Topics in Political Science

POS 6045: Seminar in American Politics

POS 6048: American Political Development

POS 6127: State Government and Politics

POS 6146: Urban Politics

POS 6157: Community Analysis

POS 6196: Patrons, Clients, Corruption, and Accountability

POS 6207: Political Behavior

POS 6208: Empirical Political Research

POS 6272: Political Participation

POS 6274: Political Campaigning

POS 6278: Advanced Campaign Strategy

POS 6279: The Politics of Direct Democracy

POS 6292: Religion and Politics

POS 6427: Legislative Process

POS 6453: Political Parties and Interest Groups

POS 6458: Politics of Campaign Finance

POS 6476: Bureaucratic Politics in the U.S.

POS 6707: Qualitative Research Methods for Political Science

POS 6712: Empirical Theories of Politics

POS 6716: Scope and Epistemologies of Political Science

POS 6736: The Conduct of Inquiry

POS 6737: Political Data Analysis

POS 6747: Topics in Political Research Methodology

POS 6757: Survey Research

POS 6909: Individual Work

POS 6910: Supervised Research

POS 6933: Special Topics

POS 6940: Supervised Teaching

POS 6971: Research for Master's Thesis

POS 7979: Advanced Research

POS 7980: Research for Doctoral Dissertation

POT 5935: Advanced Topics in Political Theory

POT 6016: Ancient Political Thought

POT 6056: Modern Political Thought

POT 6067: Contemporary Political Theory

POT 6306: Liberalism and Its Critics

POT 6314: Democratic Theory

POT 6416: The Marxist Tradition and its Critics

POT 6505: Politics and Theory

POT 6516: Political Judgment

PUP 5935: Advanced Topics in Public Policy

PUP 6006: Policy Evaluation

PUP 6007: Policy Process

PUP 6009: Public Policy Analysis

PUP 6315: Race, Gender, and Politics

Psychology Department

[College of Liberal Arts and Sciences](#)

Chair: Lise Abrams

Graduate Coordinator: Julia A. Graber

Complete faculty listing by department: [Follow this link.](#)

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

For more information, please see the program page below and our website: <http://www.psych.ufl.edu>.

CBH 6056: Comparative Psychology

CLP 6169: Seminar: Psychology and Deviant Behavior

CLP 7525: Best Methods for Studying Psychological Change

DEP 6057: Advanced Developmental Psychology I

DEP 6058: Advanced Developmental Psychology II

DEP 6059: Seminar: Special Topics in Developmental Psychology

DEP 6099: Survey of Developmental Psychology

DEP 6406: Advanced Adulthood and Aging

DEP 6409: Seminar: Adult Development and Aging

DEP 6799: Current Research Methods in Developmental Psychology

DEP 6936: Current Research in Developmental Psychology

DEP 7608: Theories of Developmental Psychology

EAB 5436: Behavioral Pharmacology

EAB 6099: Survey of Behavior Analysis

EAB 6118: Theoretical Foundations of Behavior Analysis

EAB 6707: Applied Behavior I

EAB 6712: Experimental Psychopathology

EAB 6716: Behavior Analysis in Developmental Disabilities

EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research

EAB 6750: Quantitative Methods

EAB 6780: Ethics and Professional Issues

EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior

EAB 6939: Seminar: Special Topics in Applied Behavior Analysis

EAB 7089: Advanced Seminar: Experimental Analysis of Behavior

EAB 7090: Verbal Behavior

EXP 6099: Survey of Cognition and Sensory Processes

EXP 6609: Seminar: Cognition

EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes

PCO 6057: Psychology of Counseling I

PCO 6058: Psychology of Counseling II

PCO 6059: Psychology of Counseling III

PCO 6278: Diversity and Multiculturalism in Counseling Psychology

PCO 6316C: Psychological Assessment I

PCO 6317C: Psychological Assessment II

PCO 6931: History and Contemporary Issues in Counseling Psychology

PCO 6939: Seminar: Current Topics in Counseling Psychology

PCO 7217: Professional Ethics and Skills in Counseling Psychology

PCO 7247: Group Counseling/Psychology

PCO 7537: Vocational Psychology

PCO 7944: Practicum in Counseling Psychology

PCO 7945: Advanced Practicum in Counseling Psychology

PCO 7949: Internship in Counseling Psychology

PPE 6059: Seminar in Personality

PSB 5445: Drug Use and Abuse

PSB 5935: Seminar in Physiological Psychology

PSB 6082: Neuroethology

PSB 6087: Advanced Physiological Psychology

PSB 6088L: Behavioral Neurobiology

PSB 6099: Survey of Physiological and Comparative Psychology

PSB 7248: Neurobehavioral Relations

PSB 7249: Seminar in Neural Mechanisms and Behavior

PSY 6608: History of Psychology

PSY 6905: Individual Work

PSY 6910: Supervised Research

PSY 6930: Topics in Psychology

PSY 6939: Seminar: The Teaching of Psychology

PSY 6940: Supervised Teaching

PSY 6971: Research for Master's Thesis

PSY 7979: Advanced Research

PSY 7980: Research for Doctoral Dissertation

SOP 6099: Survey of Social Psychology

SOP 6219C: Advanced Research Techniques in Social-Personality Psychology

SOP 6409: Seminar: Current Topics in Social-Personality Psychology

SOP 6419: Seminar: Attitudes and Social Cognition

SOP 6509: Seminar: Interpersonal Relations and Group Processes

SOP 6929: Colloquium on Research in Social-Personality Psychology

Religion Department

Chair: Manuel A. Vasquez.

Graduate Coordinator: David G. Hackett

Complete faculty listing by department: [Follow this link.](#)

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the *General Information* section of this catalog.

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://religion.ufl.edu/graduate-studies/> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 15 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://religion.ufl.edu/graduate-studies/>.

REL 6347: American Buddhism

REL 6368: Islam in Asia

REL 6397: Hindu Sacred Texts and Their Ritual Context

RLG 5143: Religion and Social Change

RLG 5195: Topics in Religion and Society

RLG 5297: Topics in Biblical Studies

RLG 5338: Topics in Asian Religions

RLG 5365: Studies in Islam

RLG 5396: Religion and Animals

RLG 5495: Topics in Religious Thought

RLG 5549: Studies in Christianity

RLG 5696: Topics in Jewish Thought

RLG 5906: Individual Work

RLG 5937: Topics in Religious Studies

RLG 6035: Method and Theory I

RLG 6036: Method and Theory II

RLG 6095: Utopias and Dystopias

RLG 6107: Core Seminar in Religion and Nature

RLG 6125: Religion and Politics in the Americas

RLG 6126: Religion in the Americas

RLG 6129: Hindu Traditions in America

RLG 6137: Religion in North America

RLG 6138: New Religious Movements

RLG 6167: Radical Environmentalism

RLG 6181: Ethics and the Natural Sciences

RLG 6183: Religion and Environmental Ethics

RLG 6187: Nature in Asian Religions

RLG 6196: Globalizing the Sacred

RLG 6310: Religion and Nature in South Asia

RLG 6319: Interpreting Asian Religions

RLG 6339: Women in the Hindu Tradition

RLG 6346: Buddhist Traditions

RLG 6385: Native Religions in the Americas

RLG 6387: Religions in Latin America**RLG 6910: Supervised Research****RLG 6940: Supervised Teaching****RLG 6957: Overseas Studies in Religion****RLG 6971: Research for Master's Thesis****RLG 7979: Advanced Research****RLG 7980: Research for Doctoral Dissertation****SRK 6905: Individual Study in Sanskrit****School of Architecture**

Director: M. Gold.

Graduate Coordinator: N. M. Clark.

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization in this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, Box 115701.

Master of Architecture: The School of Architecture offers graduate work leading to the first professional degree, Master of Architecture. During graduate studies, each student has the opportunity to focus on one or more areas, including design, history and theory, urban design, preservation, structures, and technology. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design. The student's overall college experience, both undergraduate and graduate programs, is intended to be a complete unit of professional education leading to practice in architecture or related fields.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Florida School of Architecture offers the following NAAB-accredited degree programs:

Master of Architecture (pre-professional degree + 52 graduate credits) Master of Architecture (professional degree + 30 graduate credits) Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits)

Master of Architecture (pre-professional degree + 52 graduate credits): For those students who have a 4-year baccalaureate degree from an accredited architectural program, 2 years in residence (52 credits) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. Course sequences in history and theory, technology, structures, and practice must also be completed.

Master of Architecture (professional degree + 30 graduate credits): For students who have a baccalaureate degree with an architecture or related major (interior design, landscape architecture) and who have completed 4 or 6 architecture or design studies courses, three years of residence (83 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or project. (Undergraduate courses 3000 and 4000 level in the major do not count toward the minimum requirements for the graduate degree.) Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits): For students with a baccalaureate degree in a nonrelated academic area and have completed fewer than 4 design studies courses, 4 years of residence (112 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4071](#), [ARC 4072](#), [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or project. Undergraduate courses 3000 and 4000 level in the major do not count toward the 52-hour minimum requirements for the graduate degree. Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Accredited 5-year professional base: For students with a baccalaureate degree in architecture from an accredited 5-year professional degree program, a 1-year degree program is available. In these cases, a specialized curriculum is developed that complements the needs of the applicant. Minimum registration is 30 credits; however, the minimum may increase if transcript reviews show that further course work is needed to meet registration and curriculum requirements. [ARC 6356](#) is a prerequisite for the thesis or master's project.

Most states require individuals intending to become architects to hold an accredited degree. The National Architectural Accrediting Board acknowledges two types of degrees: the Bachelor of Architecture (minimum 5 five years of study); and the Master of Architecture (minimum 3 years of study after an unrelated bachelor's degree, or 2 years after a related pre-professional bachelor's degree). These professional degrees educate those who aspire to registration and licensure to practice as architects.

Student work: The College may retain student work for the purpose of record, exhibition, or instruction.

Master of Science in Architectural Studies: The M.S.A.S. is a nonprofessional degree for advanced investigations in specialized areas of architectural history, architectural pedagogy, theory, technology, design, preservation, or practice. Students with a bachelor's degree in any discipline from an accredited university are eligible to apply to this program; the proposed area of focus should be precisely defined in the application. This is a 3- to 4-semester program (32 hours minimum) that includes a thesis. (No more than 6 hours of ARC 6971 may be counted in the minimum credit hours for the degree.) Interdisciplinary study is encouraged. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design.

The School sponsors special curricula in architecture to enhance the academic program. *Preservation Institute: Caribbean, Preservation Institute: Nantucket, and Vicenza Institute of*

Architecture (Italy) accepts students from the University of Florida, and also from academic circles throughout the United States and the world for year-round study. Any student in a graduate architecture program at the University of Florida may apply for one or more of these programs.

Requirements for the M.Arch., M.S.A.S., and Ph.D. degrees are described in the *General Information* section of this catalog.

The School also participates in a program granting an Interdisciplinary Concentration and Certificate in Sustainable Architecture. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Applications: All applications for fall term graduate admission (including official transcripts, GRE scores, and TOEFL scores, if necessary) must be received by the Office of the Registrar by January 15. In addition to satisfying University requirements for admission, applicants are required to submit to the Graduate Program Assistant, School of Architecture, 231 ARCH, Box 115702, the following: a portfolio of their creative work; a scholarly statement of intent and objectives; and three letters of recommendation. This material must be received by January 15 to be considered for admission in the next fall term. Students may apply after the January 15 deadline but will only be considered if spaces become available. (Updates of portfolios are accepted after January 15; however, applications will not be considered until they are complete.)

The School reserves the right to retain student work for purposes of record, exhibition, or instruction. Field trips are required of all students; students should plan to have adequate funds available. It may be necessary to assess studio fees to defray costs of base maps and other generally used materials.

ARC 5791: Topics in Architectural History

ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction

ARC 5810: Techniques of Architectural Documentation

ARC 6116: Drawing toward Architecture

ARC 6176: Advanced Computer-Aided Design

ARC 6212: Topics in Phenomena and Architecture

ARC 6226: Intercultural Perspectives in Architecture

ARC 6228: Film and Architecture

ARC 6241: Advanced Studio I

ARC 6242: Research Methods

ARC 6280: Advanced Topics in Architectural Practice

ARC 6281: Professional Practice

ARC 6311C: Building Information Modeling

ARC 6355: Advanced Studio II

ARC 6356: Advanced Studio III

ARC 6357: Advanced Topics in Architectural Design

ARC 6383: St. Augustine Interdisciplinary Design Studio

ARC 6391: Architecture, Energy, and Ecology

ARC 6393: Advanced Architectural Connections

ARC 6399: Advanced Topics in Urban Design

ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete

ARC 6512: Structural Modeling

ARC 6576: Architectural Structures

ARC 6611: Advanced Topics in Architectural Technology

ARC 6621: Graduate Environmental Technology 2

ARC 6642: Architectural Acoustic Design Laboratory

ARC 6643: Architectural Acoustics

ARC 6685: Life Safety, Sanitation, and Plumbing Systems

ARC 6705: Graduate Architectural History 3

ARC 6711: Architecture of the Ancient World

ARC 6750: Architectural History: America

ARC 6773: Strains of Modernism

ARC 6793: Advanced Topics in Regional Architecture

ARC 6805: Architectural Conservation

ARC 6821: Preservation Problems and Processes

ARC 6822: Preservation Programming and Design

ARC 6851: Technology of Preservation: Materials and Methods I

ARC 6852: Technology of Preservation: Materials and Methods II

ARC 6883: Vernacular Architecture & Sustainability

ARC 6911: Architectural Research

ARC 6912: Architectural Research II

ARC 6913: Architectural Research III

ARC 6932: Advanced Topics in Architectural Methods

ARC 6933: Sustainable Site Design

ARC 6934: European Approach to Sustainable Design

ARC 6935: Seminar in Sustainable Design

ARC 6940: Supervised Teaching

ARC 6971: Research for Master's Thesis

ARC 6979: Master's Research Project

School of Art and Art History

[College of the Arts](#)

Director: Richard C. Heipp

Graduate Coordinator: Patrick Grigsby

Complete faculty listing: [Follow this link.](#)

The School of Art and Art History offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. The school also offers Master of Arts degrees in art education, art history, and museology (museum studies) and the Doctor of Philosophy degree in art history. Requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog, and information about each of these graduate programs can be found at the links below.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/art>

ARE 6049: History of Teaching Art

ARE 6148: Curriculum in Teaching Art

ARE 6246C: Principles of Teaching Art

ARE 6247C: Teaching Art: The Study of Practice

ARE 6386: Teaching Art in Higher Education

ARE 6641: Issues in Art Education

ARE 6746: Methods of Research in Art Education

ARE 6905: Individual Study

ARE 6910: Capstone Project

ARE 6933: Special Topics in Art Education

ARE 6944: Internship in Teaching Art

ARE 6971: Research for Master's Thesis

ARE 6973: Individual Project

ARH 5357: French Art of the Ancien Regime: 1680-1780

ARH 5420: Art in the Age of Revolution

ARH 5440: Beginnings of Modernism

ARH 5527: Arts of Central Africa

ARH 5528: Art of West Africa

ARH 5529: Clothing and Textiles in Africa

ARH 5655: Indigenous American Art

ARH 5667: Colonial Andean Art

ARH 5816: Methods of Research and Bibliography

ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900

ARH 5905: Individual Study

ARH 6141: Greek Art Seminar

ARH 6292: Medieval Art Seminar

ARH 6394: Renaissance Art Seminar

ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890

ARH 6477: Eighteenth-Century European Art Seminar

ARH 6481: Contemporary Art Seminar

ARH 6496: Modern Art Seminar

ARH 6596: Chinese Art Seminar

ARH 6597: African Art Seminar

ARH 6654: Pre-Columbian Art Seminar

ARH 6666: Colonial Latin American Art Seminar

ARH 6694: Nineteenth-Century Art–Seminar

ARH 6696: American Art Seminar

ARH 6797: Museum Education

ARH 6836: Exhibitions Seminar

ARH 6895: Collections Management Seminar

ARH 6900: Independent Study in Museology

ARH 6910: Supervised Research

ARH 6911: Advanced Study

ARH 6914: Independent Study in Ancient Art History

ARH 6915: Independent Study in Medieval Art History

ARH 6916: Independent Study in Renaissance and Baroque Art History

ARH 6917: Independent Study in Modern Art History

ARH 6918: Independent Study in Non-Western Art History

ARH 6930: Special Topics in Museology

ARH 6938: Seminar in Museum Studies

ARH 6941: Supervised Internship

ARH 6946: Museum Practicum

ARH 6948: Gallery Practicum

ARH 6971: Research for Master's Thesis

ARH 7979: Advanced Research

ARH 7980: Research for Doctoral Dissertation

ART 5674C: Digital Fabrication

ART 5905C: Directed Study

ART 5930C: Special Topics

ART 6410C: Printmaking Seminar: Mastering Process and Content

ART 6411C: Printmaking Seminar: Transformation and Change

ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works

ART 6413C: Printmaking Seminar: Interdisciplinary Studio

ART 6671C: Advanced Experiments in Digital Art

ART 6672: Hypermedia

ART 6673C: Video Art

ART 6675C: Digital Art and Animation

ART 6691: Digital Art Studio

ART 6794C: Vessel Aesthetic 1

ART 6795C: Vessel Aesthetic 2

ART 6797C: Ceramic Sculpture 2

ART 6835C: Research in Methods and Materials of the Artist

ART 6849C: Reactive Environments

ART 6897: Professional Practices for the Visual Artist

ART 6910C: Supervised Research

ART 6925C: Art + Technology Workshop

ART 6926C: Advanced Study I

ART 6927C: Advanced Study II

ART 6928C: Advanced Study III

ART 6929C: Advanced Study IV

ART 6933: Area Methods: Rotating Topics

ART 6971: Research for Master's Thesis

ART 6973C: Individual Project

DIG 6746C: Graduate Seminar in Sensors and Electronics

IDC 6505C: Programming for Artists

PHC 7935: Critical Thinking in Environmental and Global Health

School of Forest Resources and Conservation

[College of Agricultural and Life Sciences](#)

Director: T. L. White.

Graduate Coordinator: T.V. Stein

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Joint program: Students may simultaneously earn a juris doctorate from the College of Law and a graduate degree (M.F.R.C., M.S., or Ph.D.) in Forest Resources and Conservation.

Combined programs: The School offers a combined bachelor's/master's degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings of 1 semester. Ph.D. students may pursue a co-major with the Department of Statistics (see below).

Concentration in geomatics: Students completing 15 or more credits with an SUR designation, as part of an SFRC graduate degree, may earn the concentration in geomatics. Geomatics is the collection, analysis, and management of spatial information and includes such fields as surveying, mapping, land tenure, cadastral systems, geographic information systems, and remote sensing.

Concentration in ecological restoration: This concentration is available to M.S. non-thesis students. To earn this concentration a student must complete Ecosystem Restoration Principles and Practice and four of the following courses: Ecological Distribution and Management of Invasive Plants, Ecology and Restoration of Invaded Ecosystems, Ecology and Restoration of Longleaf Pine Ecosystem, Watershed Restoration and Management, Natural Resource Policy and Administration, or Agroforestry in the Southeastern US. Ecological restoration seeks to return ecosystems to a close approximation of condition before a disturbance.

Statistics co-major: Ph.D. students with the School may elect the co-major offered jointly with the Department of Statistics. Students focusing on forest genetics, tree improvement, and other statistics-intensive aspects of natural resource management are potential candidates for this option.

Certificates: The School administers the Graduate Certificate in Agroforestry, and SFRC students regularly earn certificates in Geographic Information Systems and in Environmental Education and Communication. Requirements are described under *Interdisciplinary Graduate Certificates and Concentrations* in this catalog.

For additional information, please visit the School's web page at <http://sfrc.ufl.edu>.

For details on what terms courses will be offered, please visit <http://sfc.ufl.edu/gradcourses.html>.

FAS 5203C: Biology of Fishes

FAS 5255C: Diseases of Warmwater Fish

FAS 5276C: Field Ecology of Aquatic Organisms

FAS 5335C: Applied Fisheries Statistics

FAS 5901: Scientific Thinking in Ecology

FAS 6154: Aquatic Invertebrate Ecological Physiology

FAS 6171: Applied Phycology

FAS 6256: Fish and Aquatic Invertebrate Histology

FAS 6272: Marine Ecological Processes

FAS 6337C: Fish Population Dynamics

FAS 6339C: Advanced Quantitative Fisheries Assessment

FAS 6355C: Fisheries Management

FAS 6905: Individual Study

FAS 6910: Supervised Research

FAS 6932: Special Topics in Fisheries and Aquatic Sciences

FAS 6933: Graduate Symposium

FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences

FAS 6940: Supervised Teaching

FAS 6971: Research for Master's Thesis

FAS 7979: Advanced Research

FAS 7980: Research for Doctoral Dissertation

FNR 5072C: Environmental Education Program Development

FNR 5335: Agroforestry

FNR 5462: Spatial Models and Decision Analysis

FNR 5608: Research Planning

FNR 6564: Ecohydrology

FOR 5157: Ecosystem Restoration Principles and Practice

FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems

FOR 5161: Forest Productivity and Health

FOR 5435: Forest Information Systems

FOR 5615: Forest Conservation and Management Policies and Issues

FOR 5625: Forest Water Resources Management

FOR 5756: Non-Timber Forest Products

FOR 6005: Conservation Behavior

FOR 6154: Analysis of Forest Ecosystems

FOR 6156: Simulation Analysis of Forest Ecosystems

FOR 6164: Silviculture: Concepts and Application

FOR 6170: Tropical Forestry

FOR 6172C: Tropical Forestry Field Course

FOR 6215: Fire Paradigms

FOR 6310: Forest Genetics and Tree Improvement

FOR 6340: Physiology of Forest Trees

FOR 6345C: Plant Water Relations Techniques

FOR 6543: Natural Resource Economics and Valuation

FOR 6628: Community Forest Management

FOR 6665: Landscape Planning for Ecotourism

FOR 6905: Research Problems in Forest Resources and Conservation

FOR 6910: Supervised Research

FOR 6933: Seminar

FOR 6934: Topics in Forest Resources and Conservation

FOR 6940: Supervised Teaching

FOR 6971: Research for Master's Thesis

FOR 7979: Advanced Research

FOR 7980: Research for Doctoral Dissertation

GIS 6103: GIS Programming and Customization

GIS 6116: Geographic Information Systems Analysis

PCB 6555: Introduction to Quantitative Genetics

SUR 5365: Digital Mapping

SUR 5385: Remote Sensing Applications

SUR 5386: Image Processing for Remote Sensing

SUR 5391C: Geomatics: Spatial Foundations of GIS

SUR 5425: Cadastral Information Systems

SUR 5525: Least Squares Adjustment Computations

SUR 6375: Terrain Analysis and Mapping

SUR 6395: Topics in Geographic Information Systems**SUR 6427: Land Tenure and Administration****SUR 6535: GPS-INS Integration****SUR 6905: Special Problems in Geomatics****SUR 6934: Topics in Geomatics****School of Natural Resources and Environment**

Graduate coordinator: T. Frazer

Complete faculty listing by department: [Follow this link.](#)

The University of Florida School of Natural Resources and Environment offers interdisciplinary coursework in the basic and applied science of ecology, the related social sciences, and sustainability, leading to M.S. and Ph.D. degrees. Choose from about 450 courses, 280 faculty advisors, and 44 participating departments. Research areas of ecology graduate students range across natural resource ecology, environmental policy and management, and sustainable development.

Environmental problems are fundamentally human problems and should be understood in terms of human motivations and actions in a biophysical context. Their solution requires holistic thinking about dynamic ecological systems and the social, economic, and political forces driving human action. To this end, the goal of the Interdisciplinary Ecology graduate program is to provide advanced training in ecosystems thinking and the main theories and methodologies of the biophysical and social sciences to foster integrative approaches to complex real-world problems. Interdisciplinary Ecology students are intensely interested in the sustainability problem, and they welcome the challenge of addressing it through more than one traditional discipline.

EVR 5322: Scientific Processes in Conservation and Development**EVR 5705: Natural Resources and Innovation Systems****EVR 6320: Sustainable Natural Resource Management****EVR 6933: Seminar****EVR 6934: Internship****EVR 6979: Nonthesis Master's Project****PCB 6971: Research for Master's Thesis****PCB 7979: Advanced Research****PCB 7980: Research for Doctoral Dissertation****School of Teaching and Learning**

Director: E. Bondy.

Graduate Coordinator: S. G. Terzian.

Complete faculty listing by department: [Follow this link.](#)

The School of Teaching and Learning (<http://education.ufl.edu/school>) offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis or project in lieu of thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees in curriculum and instruction. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 10 areas of specialization: curriculum, teaching, and teacher education; educational technology; elementary education; mathematics education; language and literacy education (including children's literature, English education, ESOL/bilingual education, language arts, and reading education); science and environmental education; social foundations of education; social studies education; and teacher leadership for school improvement.

The nationally recognized Proteach graduate program leads to the M.Ed. degree and state certification as a classroom teacher. Unified Elementary ProTeach admits undergraduates who complete the five-year program with a master's degree. Secondary Proteach (English, Science, Social Studies) prepares teachers who have completed a bachelor's degree in the discipline they will teach. Prospective elementary teachers who already hold a bachelor's degree in a non-education field may want to consider the School's SITE program (Site-based Implementation of Teacher Education), which leads to the M.Ed. degree in curriculum and instruction. Students may apply to the state for alternative certification.

Beyond the Graduate School and College of Education admission requirements, students should have academic preparation and teaching experience appropriate to the program being pursued. Students having deficiencies in their preparation will be required to follow a program to remove such deficiencies. A limited amount of support is available for graduate studies through fellowships, scholarships, research assistantships, and teaching assistantships.

EDE 5940: Integrated Teaching and Learning**EDE 6225: Practices in Childhood Education**

EDE 6266: Teaching and Learning in Elementary Classrooms

EDE 6325: Teacher Inquiry/Action Research

EDE 6905: Individual Work

EDE 6910: Supervised Research

EDE 6932: Special Topics

EDE 6948: Internship in Elementary Schools

EDE 7047: Issues in Teacher Education

EDE 7935: Seminar in Curriculum & Instruction

EDF 5552: Role of School in Democratic Society

EDF 6520: History of Education

EDF 6544: Philosophical Foundations of Education

EDF 6606: Socioeconomic Foundations of Education

EDF 6616: Education and American Culture

EDF 6630: Educational Sociology

EDF 6812: Comparative Education

EDF 6820: Education in Latin America

EDF 7555: Values and Ethics in Education

EDF 7934: Seminar in Educational Foundations

EDG 5666: Knowing and Learning in STEM

EDG 6017: Writing for Academic Purposes

EDG 6047: Teacher Leadership for Educational Change

EDG 6207: Transforming the Curriculum

EDG 6225: Global Studies Methods in K-12 Education

EDG 6226: Foundations of Research in Curriculum & Instruction

EDG 6348: Instructional Coaching for Enhanced Student Learning

EDG 6415: Culturally Responsive Classroom Management

EDG 6445: Meeting the Educational Needs of Students Living in Poverty

EDG 6953: TLSI Online Portfolio Preparation

EDG 7224: Critical Pedagogy

EDG 7303: Teacher Learning and Socialization in High Poverty Schools

EDG 7326: Differentiated Supervision and Teacher Professional Development

EDG 7359: Professional Development and Teacher Learning

EDG 7982: Practitioner Research: Theory & Practice

EDM 6005: The Emergent Middle School

EDM 6235: Interdisciplinary Planning, Teaching, and Assessment

EME 5054: Foundations of Educational Technology

EME 5207: Designing Technology-Rich Curricula

EME 5315: Communicating with Technology

EME 5316: Educational Technology Management Issues

EME 5403: Instructional Computing I

EME 5404: Instructional Computing II

EME 5405: Internet in K-12 Instruction

EME 5431: Integrating Technology in the Mathematics Classroom

EME 5432: Integrating Technology into Social Science Classroom

EME 5433: Integrating Technology into Science Classroom

EME 6059: Blended Learning Environments

EME 6066: Issues and Trends in Educational Technology Research

EME 6076: Virtual School Philosophy and Pedagogy

EME 6156: Games and Simulations for Teaching and Learning

EME 6205: Digital Photography and Visual Literacy

EME 6208: Designing Integrated Media Environments I

EME 6209: Designing Integrated Media Environments II

EME 6235: Managing Educational Projects

EME 6236: Distance Education Leadership and Management

EME 6405: Educational Technology and Teaching

EME 6458: Distance Teaching and Learning

EME 6505: Educational Television Design and Production

EME 6602: Human-Computer Interactivity and the Learner

EME 6606: Advanced Instructional Design

EME 6609: Instructional Design

EME 6716: Organization and Administration of Educational Media Centers

EME 6935: Seminar: Distance Education Issues and Applications

EME 6945: Practicum in Educational Media and Instructional Design

EME 7938: Seminar in Educational Media and Instructional Design

ESE 6215: The Secondary School Curriculum

ESE 6344: Classroom Practices and Assessment in Secondary Education

ESE 6345: Effective Teaching and Classroom Management

ESE 6905: Individual Work

ESE 6939: Special Topics

ESE 6945: Student Teaching in Secondary School

FLE 6165: Bilingual-Bicultural Education

FLE 6167: Cross-Cultural Communication for Teachers

FLE 6336: Teaching Foreign Languages in Elementary Schools

FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School

FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level

LAE 6298: Literacy & Language Instruction

LAE 6319: Language Arts in the Elementary School

LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts

LAE 6348: Teaching Multiliteracies

LAE 6365: Language Arts: Language and Composition

LAE 6366: Language Arts: Literature

LAE 6407: Early Childhood Children's Literature

LAE 6446: Multicultural Literature for Children and Adolescents

LAE 6447: Immigrant Experiences in Children's and Adolescent Literature

LAE 6455: International Children's Literature

LAE 6616: Seminar in Children's Literature

LAE 6635: Teaching Adolescent Literature in the Secondary School

LAE 6714: Children's Literature in the Childhood Curriculum

LAE 6861: Technology and Media Literacy

LAE 6865: Teaching Media Literacy with the Internet

LAE 6869: Teaching Digital Storytelling

LAE 6939: Literacy, Family, and Culture

LAE 6945: Practicum and Assessment for Teachers of Secondary School English

LAE 6946: Children's Literature in Educational Settings

LAE 7006: Language Acquisition and Education

LAE 7519: Language and Inquiry

LAE 7715: Research in Children's Literature

LAE 7934: Seminar in Composition Theory and Practice

LAE 7936: Seminar in English Language Arts

MAE 5327: Middle School Mathematics Methods

MAE 5332: Secondary School Mathematics Methods and Assessment

MAE 5347: Teaching K-8 Mathematics for Understanding

MAE 5395: Multicultural Mathematics Methods

MAE 5396: Using Formative Assessment to Improve Mathematical Learning

MAE 5945: Secondary School Mathematics Practicum

MAE 6313: Problem Solving in School Mathematics

MAE 6615: Individualizing Instruction in Mathematics

MAE 6641: Readings and Research in Mathematics Education

MAE 6916: Inquiry in Mathematics Teaching

MAE 7899: Mathematics Education Seminar

RED 5046: Foundations of Reading in Grades PreK-12

RED 5316: Reading in the Primary Grades

RED 5337: Reading in the Secondary School

RED 5355: Reading Instruction in the Intermediate Grades

RED 5399: Practices in Beginning Reading Instruction

RED 6346: Seminar in Reading

RED 6520: Classroom Literacy Assessment and Instruction

RED 6546C: Diagnosis of Reading Difficulties

RED 6548C: Remediation of Reading Difficulties

RED 6647: Trends in Reading

RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties

RED 7019: Foundations of Literacy

RED 7817: Understanding Reading Difficulties

SCE 5316: Inquiry-Based Science Teaching

SCE 5355: Foundations of Science Teaching

SCE 5695: Diversity and Equity in Science Teaching

SCE 5765: Data-Driven Science Instruction

SCE 6045: Environmental Education Methods and Materials

SCE 6117: Science Education in the Elementary School

SCE 6246: Science Instruction in Informal Settings

SCE 6338: Secondary Science Methods and Assessment

SCE 6647: Global Studies Methods in Science Education

SCE 6947: Practicum in Secondary Science Teaching and Assessment

SSE 5320: Middle School Social Studies Methods

SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment

SSE 6046: Perspectives in Social Studies Education

SSE 6117: Social Studies Education—Elementary School

SSE 6133: Secondary School Social Studies Methods and Assessment

SSE 6478: Global Studies Methods in Social Studies

TSL 5142: ESOL Curriculum, Methods, and Assessment

TSL 5325: Secondary ESOL Teaching Strategies

TSL 6145: Curriculum and Materials Development for ESOL K-12

TSL 6245: Language Principles for ESOL Teachers

TSL 6373: Methods of Teaching ESOL K-12

TSL 6440: Testing and Evaluation of ESOL

TSL 6700: Issues in ESOL for School Counselors and Psychologists

School of Theatre and Dance

Director: J. Dickey

Graduate Performance Program Coordinator: Ralf Remshardt

Graduate Design Program Coordinator: S. Kaye

Complete faculty listing by department: [Follow this link.](#)

The graduate program offered by the School of Theatre and Dance leads to the degree of Master of Fine Arts in Theatre. Minimum requirements for this degree are given in the *General Information* section of this catalog.

The M.F.A. degree prepares students for professional entry in acting, production, or teaching. Placement in the M.F.A. program is determined by audition/portfolio review, academic credentials, and personal interview. Candidates for admission should have adequate training in theatre. Deficiencies may be corrected before beginning graduate study.

The program emphasizes the study and practice of theatre as an art and discipline. Students of acting and design study concepts of theatre together while working in their areas of specialization. Focus is on the collaboration and synthesis of theatre artistry. Each incoming class is composed of approximately 12 to 18 students in acting and all design areas.

The student's artistic and academic progress will be reviewed at the end of each semester. The *School of Theatre Handbook* gives details on the form and focus of each review. This information is online at <http://www.arts.ufl.edu/theatreanddance/pages/whatyouneedtoknow/downloads/downloads.asp>.

During the final year of study, each student must successfully complete the comprehensive examination and oral defense. The project in lieu of thesis includes research, analysis, rehearsal process, and evaluation. Development and execution of the project includes public performance (acting or design). The written document and oral defense of the project which follow must demonstrate the ability to communicate the creative process.

Graduate acting students audition for all departmental productions.

ARC 6670: Lighting Design Seminar

DAA 6757: Pilates Technique for the Dancer

DAA 6905: Graduate Dance Project

DAN 6436: Laban Movement Analysis

DAN 6949: Dance Clinical Practice

THE 5238: African-American Theatre History and Practice

THE 5287: History of Decor and Architecture for the Stage

THE 5910: Introduction to Graduate Study in Theatre

THE 6265: Costume History

THE 6525: History, Literature, and Criticism I

THE 6526: History, Literature, and Criticism II

THE 6565: Seminar in Creative Process

THE 6905: Individual Study

THE 6940: Supervised Teaching

THE 6941: Internship

THE 6950: Applied Theatre

THE 6955: Summer Repertory Theatre

THE 6971: Research for Master's Thesis

THE 6973C: Project in Lieu of Thesis

TPA 5025: Lighting Design I

TPA 5047: Costume Design I

TPA 5067: Scene Design I

TPA 5072: Drawing and Rendering

TPA 5079: Graduate Scene Painting

TPA 5082: Advanced Theatre Graphics

TPA 5236: Costume Technologies Workshop

TPA 6005: Design I

TPA 6006: Design II

TPA 6009: Design Studio

TPA 6026: Lighting Design II

TPA 6048: Costume Design II

TPA 6054: Detail Design for Costume Designers

TPA 6069: Scene Design II

TPA 6235: Costume Construction

TPA 6237: Pattern Making: Flat Patterning

TPA 6243: Pattern Making: Draping

TPA 6258: Computer Drafting 2D

TPA 6357: Programming and Presentation for the Lighting Designer

TPP 5234: Mutli-Cultural Performance Workshop

TPP 6115: Graduate Acting I: Modern Acting Theory and Practice

TPP 6116: Graduate Acting II: Shakespeare and High Style

TPP 6145: Graduate Acting III: Period Styles

TPP 6149: Acting IV: Contemporary Realism

TPP 6225: Professional Seminar: Acting

TPP 6237: MFA Company Acting Workshop

TPP 6266: Acting for the Camera

TPP 6285: Voice and Movement I

TPP 6286: MFA Voice and Speech II: Shakespeare and High Styles

TPP 6297: The Alexander Technique I

TPP 6298: The Alexander Technique II

TPP 6299: The Alexander Technique III

TPP 6385: Directing

TPP 6515: Graduate Movement Training

TPP 6536: Graduate Stage Combat

TPP 6717: MFA Voice and Speech III: Period Styles

TPP 6718: MFA Voice and Speech IV: Advanced Vocal Training for the Actor

TPP 6946: Performance Practicum

Sociology and Criminology & Law Department

Chair: Barbara Zsembik

Graduate Coordinator: Barbara Zsembik

Complete faculty listing by department: [Follow this link.](#)

The Department of Sociology and Criminology & Law offers several programs of graduate study leading to the Ph.D. in Sociology, the Ph.D. in Criminology, Law and Society, the M.A. in Sociology, the M.A. in Criminology, Law and Society, and a Joint MA in Criminology/JD degree. The department also partners with the School of Natural Resources and Environment Department to offer the Ph.D. or MA in Interdisciplinary Ecology. Advanced undergraduate majors may complete a combined BA/MA degree in Sociology or a combined BA/MA degree in Criminology, Law and Society.

CCJ 5934: Contemporary Issues in Criminology and Law

CCJ 6063: Communities and Crime

CCJ 6285: Criminal Justice Process

CCJ 6619: Crime and the Life Course

CCJ 6643: White Collar Crime

CCJ 6658: Drugs, Crime, and Policy

CCJ 6705: Research Methods in Crime, Law, and Justice

CCJ 6708: Research Issues in Crime and Deviance

CCJ 6712: Evaluation Research

CCJ 6905: Independent Study

CCJ 6910: Supervised Research

CCJ 6920: Seminar in Criminological Theory

CCJ 6936: Proseminar in Crime, Law, and Justice

CCJ 6971: Research for Master's Thesis

CCJ 7742: Research Methods in Crime, Law, and Justice II

CCJ 7921: Professional Development in Criminology, Law, and Society

CCJ 7979: Advanced Research

CCJ 7980: Research for Doctoral Dissertation

CJC 6120: Corrections and Public Policy

CJL 6039: Law and Society

CJL 6089: Humanitarian Law

CJL 6090: Law and Social Science

CJL 6091: Anthropology of Law

CJL 6095: Human Rights in Cultural Context

SYA 6018: Classical Social Theories

SYA 6126: Contemporary Sociological Theory

SYA 6305: Methods in Social Research I

SYA 6306: Methods in Social Research II

SYA 6315: Qualitative Research Methods

SYA 6327: Research Problems in Deviance

SYA 6407: Quantitative Research Methods

SYA 6905: Individual Work

SYA 6910: Supervised Research

SYA 6942: Applied Social Research Project

SYA 6971: Research for Master's Thesis

SYA 7933: Special Study in Sociology

SYA 7979: Advanced Research

SYA 7980: Research for Doctoral Dissertation

SYD 6436: Metropolitan Growth and Development

SYD 6517: Seminar in Environment and Society

SYD 6518: Core Issues in Environmental and Resource Sociology

SYD 6706: Racial and Ethnic Relations

SYD 6707: Black and White Americans: Sociological Perspectives

SYD 6806: Gender and Society

SYD 6807: Sociology of Gender

SYD 6825: Men and Masculinities

SYD 7808: Reproduction and Gender

SYO 6107: American Families

SYO 6126: Family Theories

SYO 6175: Topics in Family Research

SYO 6407: Health Disparities

SYO 6427: Health and Aging

SYO 6535: Social Inequality

SYP 6115: Seminar in Symbolic Interaction

SYP 6517: Theories of Crime and Deviance

SYP 6545: Sociology of Law

SYP 6735: Sociology of Aging and the Life Course

SYP 6736: Sociology of the Aged

SYP 6745: Aging and End-of-Life Issues

Soil and Water Science Department

Chair: K. Ramesh Reddy

Graduate Coordinator: Max Teplitski

Complete faculty listing by department: [Follow this link.](#)

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The Department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog

Soil and Water are vital resources in urban, agricultural, and natural ecosystems. The Soil and Water Science Department (SWSD) provides highly visible leadership in teaching research, and extension/outreach programs as related to improving the productivity of agriculture with environmentally sound management practices, improving water quality, and protection and conservation of natural resources. Our department is one of the few in the nation that offers a comprehensive research and educational programs (molecular to landscape level) involving terrestrial, wetlands and aquatic ecosystems of the landscape. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place-bound students. Our graduates and postdoctoral fellows are well placed at universities, state and federal agencies, and private industry.

The SWSD programs are designed to meet the changing needs of our clientele at state, national and international levels. To meet new challenges and explore new opportunities, the SWSD's research, teaching, and extension programs are focused in five areas, with broader implication to water quality, carbon sequestration, greenhouse gases, and climate change:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

The Department offers graduate level certificates in Biodegradation and Remediation, Sustainable Land Resource and Nutrient Management, Soil Ecosystem Services, and Wetland and Water Resource Management for both on-campus students and via distance education for place bound students (<http://soils.ifas.ufl.edu/academics/degree-certificates.shtml>).

An additional option offered by the Department is a combined bachelor's/master's degree program that permits a B.S in Soil and Water Science or Interdisciplinary Studies – Environmental

Management in Agriculture and Natural Resources and M.S. Degree to be completed in five years. Contact the graduate coordinator for more information.

For more information, please see the program page below and our website: <http://soils.ifas.ufl.edu>.

ALS 5027: Reusable Learning Objects

ALS 5155: Global Agroecosystems

SWS 5050: Soils for Environmental Professionals

SWS 5050L: Soils for Environmental Professionals Laboratory

SWS 5115: Environmental Nutrient Management

SWS 5132: Tropical Soil Management

SWS 5182: Earth System Analysis

SWS 5208: Sustainable Agricultural and Urban Land Management

SWS 5224: Environmental Biogeochemistry

SWS 5234: Environmental Soil, Water, and Land Use

SWS 5235: South Florida Ecosystems

SWS 5246: Water Resource Sustainability

SWS 5247: Hydric Soils

SWS 5248: Wetlands and Water Quality

SWS 5305C: Soil Microbial Ecology

SWS 5308: Ecology of Waterborne Pathogens

SWS 5406: Soil and Water Chemistry

SWS 5424C: Soil Chemical Analysis

SWS 5551: Soils, Water, and Public Health

SWS 5605C: Environmental Soil Physics

SWS 5716C: Environmental Pedology

SWS 5721C: GIS in Land Resource Management

SWS 5805: Environmental Soil and Water Monitoring Techniques

SWS 6134: Soil Quality

SWS 6136: Soil Fertility

SWS 6161: Bioavailability of Soil Nutrients

SWS 6262: Soil Contamination and Remediation

SWS 6323: Advanced Microbial Ecology

SWS 6325: Rhizosphere Biochemistry

SWS 6366: Biodegradation and Bioremediation

SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems

SWS 6454: Advanced Soil and Water Chemistry

SWS 6456: Advanced Biogeochemistry

SWS 6464C: Soil Mineralogy

SWS 6622: Vadose Zone Hydrology

SWS 6722: Soil-Landscape Modeling

SWS 6905: Special Problems

SWS 6910: Supervised Research

SWS 6931: Seminar

SWS 6932: Topics in Soils

SWS 6940: Supervised Teaching

SWS 6971: Research for Master's Thesis

SWS 7979: Advanced Research

SWS 7980: Research for Doctoral Dissertation

Spanish and Portuguese Studies Department

Chair: G. Lord

Graduate Coordinator: L. Álvarez Castro

Complete faculty listing by department: [Follow this link.](#)

The Department of Spanish and Portuguese Studies offers a Master of Arts degree (M.A.) in Spanish (thesis and non-thesis options) and a Doctor of Philosophy degree (Ph.D.) in Romance Languages and Literatures, with a concentration in Spanish. Descriptions of the minimum requirements for both degrees are provided in the General Information section of this catalog. For specific information about the program, please visit the graduate section of the departmental webpage:

<http://www.spanishandportuguese.ufl.edu/spanish/graduate.html>

Candidates for graduate degrees (both M.A. and Ph.D.) in Spanish can choose between two specializations—literature/culture or linguistics. In conjunction with their master's or doctoral work, students may also earn a Certificate in Latin American Studies. Though a graduate degree is not offered in Portuguese, extensive course offerings at the graduate level permit students to develop a strong specialization in Portuguese language and Luso-Brazilian literature, film and culture.

The main prerequisite for admission to the M.A. program is an undergraduate major in Spanish, ideally including advanced courses in the proposed area of specialization. Applicants for the Ph.D. should hold an M.A. or equivalent degree in Spanish. At the discretion of the Graduate Studies Committee, candidates from related fields of study (History, Sociology...) may be offered a conditional admission into the Ph.D. program pending the passing of the M.A. Comprehensive Examination within the first year of study.

All M.A. and Ph.D. students in Spanish who are appointed as teaching assistants must take Romance Language Teaching Methods (FOL / [FOL 6943](#)). Besides, all M.A. and Ph.D. students specializing in literature and culture must take Introduction to Graduate Study and Research ([SPW 6806](#)). Other requirements vary with degree and specialization. For details, consult the graduate section of the departmental webpage (see above).

The Department is able to offer most students a teaching assistantship that provides a maintenance stipend and includes a tuition waiver. Contingent on positive performance in teaching and graduate work, M.A. students are guaranteed four semesters of support, and Ph.D. students are guaranteed eight semesters of support beyond the M.A. In addition, there are several fellowships, supplements and stipends for which students may apply, and summer teaching may be available.

Prospective students are encouraged to review the departmental webpage in order to familiarize themselves with the program and the application process. Only those applications including all required materials and submitted by the advertised deadlines will be considered. For any questions about the program or how to apply, please contact the graduate coordinator: lcastro@ufl.edu.

Highly qualified UF undergraduate students majoring in Spanish may apply for a combined B.A./M.A. program in Spanish that allows up to 12 graduate credits to be counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details.

FOL 6326: Technology in Foreign Language Education

FOL 6943: Romance Language Teaching Methods

FOW 6930: Special Study in Romance Languages and Literatures

POW 6276: Twentieth-Century Brazilian Novel

POW 6385: Brazilian Lyric

POW 6386: Brazilian Drama

POW 6905: Individual Work

POW 6930: Rotating Topics in Brazilian or Portuguese Literature

SPN 6166: Teaching Spanish for the Professions

SPN 6315: Advanced Composition and Syntax

SPN 6425: Writing for the Profession

SPN 6705: Foundations of Hispanic Linguistics

SPN 6715: Formal Instruction and Acquisition of Spanish

SPN 6735: Special Study in Spanish Linguistics

SPN 6785: Advanced Spanish Phonetics

SPN 6827: Sociolinguistics of the Spanish-Speaking World

SPN 6835: Spanish and Spanish-American Dialectology

SPN 6845: History of the Spanish Language

SPN 6848: Medieval Spanish Linguistics

SPN 6855: Structure of Spanish

SPN 6856: Spanish in Contact: Issues in Bilingualism

SPN 6900: Directed Readings in Spanish

SPN 6940: Supervised Teaching

SPN 6945: Practicum in Advanced College Teaching

SPW 6209: Colonial Spanish-American Literature

SPW 6216: Spanish Prose Fiction of the Golden Age

SPW 6236: Spanish-American Narrative from the origins to Criollismo

SPW 6269: Spanish Novel of the Nineteenth Century

SPW 6278: Postwar Spanish Fiction

SPW 6285: Contemporary Spanish-American Narrative I

SPW 6286: Contemporary Spanish-American Narrative II

SPW 6306: Spanish-American Theater

SPW 6315: Spanish Drama of the Golden Age

SPW 6337: Golden Age Poetry

SPW 6345: Twentieth-Century Spanish Poetry

SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo

SPW 6357: Contemporary Spanish-American Poetry

SPW 6366: Spanish-American Essay

SPW 6535: Spanish Romanticism

SPW 6545: Spanish Romanticism

SPW 6606: Cervantes

SPW 6729: The Generation of 1898

SPW 6806: Introduction to Graduate Study and Research

SPW 6902: Special Study in Spanish or Spanish-American Literature

SPW 6905: Individual Work

SPW 6910: Supervised Research

SPW 6934: Seminar in Spanish American Literature and Culture

SPW 6938: Seminar in Spanish Literature and Culture

SPW 6971: Research for Master's Thesis

SPW 7979: Advanced Research

SPW 7980: Research for Doctoral Dissertation

Special Education, School Psychology and Early Childhood Studies Department

Director: Jean Crockett

Complete faculty listing by department: [Follow this link.](#)

The School of Special Education, School Psychology, and Early Childhood Studies offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 3 areas of specialization: Special Education; School Psychology; and Early Childhood Studies. Programs are accredited by the Florida Department of Education and approved by the National Council for Accreditation of Teacher Education (NCATE). The School Psychology program is approved by the NCATE and the National Association of School Psychologists (NASP). The Ph.D. program in School Psychology is accredited by the American Psychological Association (APA).

EDF 7482: Quasi-experimental Design and Analysis in Educational Research

EEC 6205: Early Childhood Curriculum

EEC 6304: Creativity in the Early Childhood Curriculum

EEC 6525: Issues in Child Care Administration

EEC 6615: Early Childhood Education: Background and Concepts

EEC 6905: Individual Work

EEC 6910: Supervised Research

EEC 6933: Special Topics

EEC 6940: Supervised Teaching

EEC 6946: Practicum in Early Childhood Education

EEC 7056: Early Childhood Policy and Advocacy

EEC 7617: Early Childhood Assessment & Evaluation

EEC 7666: Theory and Research in Early Childhood Studies

EEC 7979: Advanced Research

EEX 5940: Supervised Student Teaching in Special Education

EEX 6053: Foundations of Special Education

EEX 6072: Accessing Academic and Social Communities for Students with Disabilities

EEX 6098: Students with Disabilities in Higher Education

EEX 6125: Interventions for Language and Learning Disabilities

EEX 6219: Reading Assessment and Intervention for Students with Disabilities

EEX 6222: Evaluation in Special Education

EEX 6233: Designing Instruction for Inclusive Classrooms

EEX 6234: Assessment, Curriculum, and Instruction for Students with Severe Disabilities

EEX 6249: Advanced Strategies for Teaching Students with Disabilities

EEX 6269: Academic Strategies for Postsecondary Students with Disabilities

EEX 6296: Differentiated Instruction

EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities

EEX 6661: Teaching and Managing Behavior for Student Learning

EEX 6750: Families and Transition for Students with Disabilities

EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities

EEX 6785: Introduction to Education-Healthcare Transition

EEX 6786: Transdisciplinary and Transition Services in Special Education

EEX 6788: Methods for Integrating Education-Health Care Transition

EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition

EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)

EEX 6835: Practicum in Special Education: Severe Disabilities

EEX 6841: Practicum in Special Education: Mild Disabilities

EEX 6863: Supervised Practice in Special Education

EEX 6905: Individual Work

EEX 6910: Supervised Research

EEX 6936: Special Topics

EEX 6940: Supervised Teaching

EEX 6971: Research for Master's Thesis

EEX 6973: Project in Lieu of Thesis

EEX 7303: Inquiry in Special Education: Analysis of the Literature

EEX 7304: Introduction to Field of Inquiry in Special Education

EEX 7428: Teacher Education in Special Education

EEX 7526: Grant Writing Seminar in Education

EEX 7709: Social-Emotional Learning & Play in Early Childhood

EEX 7787: School Improvement for All Students

EEX 7865: Internship: Special Education

EEX 7934: Seminar: Trends in Special Education

EEX 7979: Advanced Research

EEX 7980: Research for Doctoral Dissertation

EGI 6051: Education of the Gifted Child

EGI 6245: Program Development for the Gifted

SPS 6052: Issues and Problems in School Psychology

SPS 6191: Psychoeducational Assessment I

SPS 6192: Psychoeducational Assessment II

SPS 6193: Academic Assessment & Intervention

SPS 6195: Developmental Psychopathology

SPS 6197: Psychoeducational Assessment III

SPS 6410: Direct Interventions I: Applied Behavior Analysis for School Psychologists

SPS 6707: Interventions in School Psychology II: Cognitive Behavioral Interventions

SPS 6708: Interventions in School Psychology III: System Level Interventions for Children and Youths

SPS 6815: Law and Ethics in Psychology

SPS 6905: Individual Study

SPS 6910: Supervised Research

SPS 6937: Special Topics in School Psychology

SPS 6940: Supervised Teaching

SPS 6941: Practicum in School Psychology

SPS 6942: School Psychology Practicum II

SPS 6945: Advanced Practicum in School Psychology

SPS 7205: School Psychology Consultation

SPS 7931: Seminar in School Psychology

SPS 7949: Internship in School Psychology

SPS 7979: Advanced Research

SPS 7980: Research for Doctoral Dissertation**Speech, Language and Hearing Sciences Department**

Chair: Scott K. Griffiths

Graduate Coordinators: Kenneth J. Logan and Alice Holmes

Complete faculty listing by department: [Follow this link.](#)

Graduate programs in the Department lead to Master of Arts and Doctor of Philosophy degrees in Communication Sciences and Disorders and to the Doctor of Audiology degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate specializations and programs in speech-language pathology and audiology are accredited by the Council on Academic Accreditation/American Speech-Language-Hearing Association.

The **Doctor of Audiology (Au.D.) Program** in the Department of Speech, Language, and Hearing Sciences is a four-year graduate degree. Graduate students take course work in theoretical and applied audiologic sciences and research. There are no specific undergraduate courses required for admission to the Au.D. degree program, although applicants with a strong science background are encouraged to apply. Graduates of this program are eligible for the Certificate of Clinical Competence in Audiology (CCC-A) administered by the American Speech-Language-Hearing Association, Board Certification in Audiology administered by the American Academy of Audiology, and for state licensure in audiology. For more information, contact Alice Holmes, Ph.D. (aholmes@ufl.edu).

The **Ph.D. Program in Communication Sciences and Disorders** provides a state-of-the-art education in research practices in speech-language pathology and audiology with a strong interdisciplinary focus. Our goal is to prepare the next generation of researchers who are specialized in basic and/or applied science that relates to a range of speech, language, hearing, and swallowing functions. The program is designed to develop researchers who are skilled at independently designing and conducting original research that adds to the body of knowledge in the field. Students are individually mentored and pursue individually designed programs of study tailored to their interests and needs, which incorporate training in appropriate adjunct fields such as engineering, dentistry, gerontology, linguistics, psychology, medicine and special education. For more information, contact Lori Altmann, Ph.D. (laltmann@ufl.edu).

The **Master of Arts (M.A.) Program** offers comprehensive academic training and clinical experience for students who are interested in a career in speech-language pathology. The five-semester program culminates in the completion of either a clinical externship or a Master's thesis, and it provides graduates with a solid foundation for obtaining employment in a variety of work settings. Students have the opportunity to complete clinical practica at sites within the University of Florida's Health Science Center and at other medical, rehabilitative, and educational facilities on or near the campus. These sites allow students to gain experience with providing clinical services to a range of patient populations.

Applicants to the Master's program must demonstrate successful completion of pre-requisite coursework in both normal bases of communication and introductory concepts in communication disorders. Additional information about these pre-requisites is available on the Department website. Graduates of the program are eligible for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association as well as state licensure in speech-language pathology. For more information, contact Kenneth J. Logan, Ph.D. (klogan@ufl.edu).

The Department of Speech, Language, and Hearing Sciences is committed to providing its students with a high-quality educational experience that will prepare them for rewarding employment in the areas of speech-language pathology and audiology, as well as an eagerness for life-long learning and professional development. The department strives to enroll a diverse group of students who possess both high ethical standards and strong academic skills. The application deadlines are January 15 for fall admission to the Ph.D. program, and February 1 for fall admission to the Master's and Au.D. programs.

For more information, please see the program pages below and our website: <http://slhs.php.ufl.edu>.

ASL 5406: Manual Communication with the Hearing Impaired**LAE 6505: Applied Preschool Language Disorders: Diagnosis and Treatment****SPA 5051: Clinical Observation in Audiology****SPA 5102: Auditory Anatomy and Physiology****SPA 5128: Speech Perception****SPA 5204: Phonological Disorders****SPA 5211: Voice Disorders****SPA 5225: Principles of Speech Pathology: Stuttering****SPA 5245: Communicative Disorders Related to Cleft Palate****SPA 5254: Neurocognitive Language Disorders****SPA 5304: Principles of Audiological Evaluation****SPA 5315: Peripheral and Central Auditory Disorders****SPA 5401: Speech Pathology Language Disorder****SPA 5405: Language Disorders II****SPA 5553: Instrumentation and Diagnosis in Speech-Language Pathology****SPA 5563: Psychosocial Aspects of Hearing Loss**

SPA 5646: Speech and Language of the Deaf and Hard of Hearing

SPA 6008: Medical Aspects of Speech-Language Pathology

SPA 6010: Basic Auditory Sciences

SPA 6117: Science of Singing

SPA 6133L: Hearing Aid Analysis Laboratory

SPA 6207: Applied Phonological Disorders: Diagnosis and Treatment

SPA 6211: Applied Voice Disorders: Diagnosis and Treatment

SPA 6217: Vocal Health and Habilitation

SPA 6229: Applied Fluency Disorders: Diagnosis and Treatment

SPA 6233: Speech Motor Control Disorders

SPA 6270: Auditory Processing Disorders

SPA 6305: Pediatric Audiology

SPA 6311: Medical Audiology

SPA 6312: Advanced Audiology and Neuro-Otology

SPA 6317: Vestibular Disorders

SPA 6323: Audiologic Rehabilitation for Adults

SPA 6324: Audiologic Rehabilitation for Children

SPA 6340: Amplification I

SPA 6341: Amplification II

SPA 6342: Amplification III

SPA 6390: Proseminar: Speech-Language Pathology and Audiology

SPA 6410: Adult Language Disorders

SPA 6416: Applied Neurogenic Disorders: Diagnosis and Treatment

SPA 6430: Applied Developmental Disorders: Diagnosis and Treatment in Speech and Language

SPA 6436: Issues in Autism Spectrum Disorders

SPA 6506: Clinical Clerkship in Audiology

SPA 6507: Applied Augmentative and Alternative Communication

SPA 6521: Practicum in Speech-Language Diagnostics: UFSHC

SPA 6524: Practicum in Speech-Language Therapy: UFSHC

SPA 6531: Clinical Practice in Hearing Assessment

SPA 6533: Clinical Practice in Aural Rehabilitation

SPA 6559: Alternative and Augmentative Communication

SPA 6564: Communication and Aging

SPA 6565: Seminar in Dysphagia

SPA 6568: Clinical Evaluation in Medical Speech-Language Pathology

SPA 6570: Seminar: Professional Aspects of Speech-Language Pathology

SPA 6581: Special Clinical

SPA 6805: Introduction to Graduate Research

SPA 6830: Communication Disorders in Medically Complex Pediatric Populations

SPA 6905: Individual Study

SPA 6910: Supervised Research

SPA 6930: Proseminar in Speech-Language Pathology and Audiology

SPA 6935: Applied Reading Disabilities: Diagnosis and Treatment

SPA 6936: Special Topics

SPA 6940: Supervised Teaching

SPA 6942: Externship in Speech-Language Pathology

SPA 6971: Research for Master's Thesis

SPA 7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions

SPA 7306: Audiologic Assessment in a Medical Setting

SPA 7318: Clinical Auditory Electrophysiology

SPA 7319: Balance Disorders: Evaluation and Treatment

SPA 7325: Audiologic Rehabilitation

SPA 7343: Cochlear Implants and Assistive Devices

SPA 7348: Principles of Amplification

SPA 7353: Environmental Hearing Conservation

SPA 7354: Seminar in Audiology: Hearing Conservation and Noise Control

SPA 7391: Business and Professional Issues in Audiology

SPA 7415: Neurolinguistics of Adult Language Disorders

SPA 7500: Public School Practicum

SPA 7523: Practicum in Speech Pathology in a Medical/Dental Setting

SPA 7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders

SPA 7566: Counseling Individuals with Hearing Losses

SPA 7833: Audiology Research Project

SPA 7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities

SPA 7945: Graduate Practicum in Audiology

SPA 7946: Clinical I: Practicum in Medical Speech and Language Pathology

SPA 7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology

SPA 7958: Clinical Externship

SPA 7979: Advanced Research

SPA 7980: Research for Doctoral Dissertation

Statistics Department

Chair: M. J. Daniels

Graduate Coordinator: J. P. Hobert

Complete faculty listing: [Follow this link.](#)

Graduate programs are available leading to Master of Science in Statistics, Master of Statistics, and Doctor of Philosophy degrees. Minimum requirements for these degrees are described in the *General Information* section of this catalog.

Both master's programs usually require 2 years of course work including material covered in [STA 6208](#), 6208, [STA 6326](#), [STA 6327](#), [STA 6246](#), and [STA 6329](#). In addition to earning a "Ph.D. pass" on the first-year evaluation, requirements for the Ph.D. degree include STA 6466, 6467, [STA 7249](#), and [STA 7346](#).

Interdisciplinary programs: The Department offers a co-major program in conjunction with the Fisher School of Accounting leading to the Doctor of Philosophy degree in statistics and business administration accounting. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Departments of Mathematics; Industrial and Systems Engineering; and Finance, Insurance, and Real Estate. For information on these programs, consult the departmental graduate coordinator.

Combined program: The Department offers a bachelor's/master's degree program. Contact the graduate coordinator for information.

STA 5106: Computer Programs in Statistical Analysis

STA 5507: Applied Nonparametric Methods

STA 5823: Stochastic Process Methods

STA 5856: Applied Time Series Methods

STA 6126: Statistical Methods in Social Research I

STA 6127: Statistical Methods in Social Research II

STA 6167: Statistical Methods in Research II

STA 6177: Applied Survival Analysis

STA 6178: Genetic Data Analysis

STA 6207: Regression Analysis

STA 6208: Basic Design and Analysis of Experiments

STA 6209: Design and Analysis of Experiments

STA 6226: Sampling Theory and Application

STA 6246: Theory of Linear Models

STA 6326: Introduction to Theoretical Statistics I

STA 6327: Introduction to Theoretical Statistics II

STA 6329: Matrix Algebra and Statistical Computing

STA 6505: Analysis of Categorical Data

STA 6526: Nonparametric Statistics

STA6707: Analysis of Multivariate Data

STA6826: Stochastic Processes

STA6857: Time Series Analysis

STA6866: Monte Carlo Statistical Methods

STA6905: Individual Work

STA6910: Supervised Research

STA6938: Seminar

STA6940: Supervised Teaching

STA6942: Internship

STA6971: Research for Master's Thesis

STA7179: Survival Analysis

STA7334: Limit Theory

STA7347: Advanced Inference

STA7348: Bayesian Theory

STA7466: Probability Theory I

STA7467: Probability Theory II

STA7527: Theory of Nonparametric Statistics

STA7828: Topics in Stochastic Processes

STA7934: Special Topics in Statistics

STA7979: Advanced Research

STA7980: Research for Doctoral Dissertation

Taxation Department

Chair and Graduate Coordinator: M. K. Friel.

Complete faculty listing by department: [Follow this link.](#)

Graduate study in the field of taxation leading to the Master of Laws in Taxation degree or to the Master of Laws in International Tax degree is available in the College of Law.

Applicants for admission to the Graduate School for these degrees must hold a law degree from an accredited law school or in the case of international students, from a recognized foreign university but need not submit scores on the Graduate Record Examination. For further information concerning admission consult the *Graduate Tax Program Catalog*, or write the Tax Office, 320 Holland Law Center.

LAW7602: Taxation of Property Transactions

LAW7604: Timing Issues in Taxation

LAW7611: Corporate Taxation I

LAW7613: Corporate Taxation II

LAW7614: U.S. International Tax I

LAW7615: U.S. International Tax II

LAW 7617: Partnership Taxation

LAW 7623: Taxation of Gratuitous Transfers

LAW 7625: Income Taxation of Trusts and Estates

LAW 7626: Estate Planning

LAW 7632: Deferred Compensation

LAW 7633: Tax Exempt Organizations

LAW 7640: Civil Tax Procedure

LAW 7641: Procedures in Tax Fraud Cases

LAW 7650: State and Local Taxation

LAW 7660: Tax Policy

LAW 7680: Comparative Taxation

LAW 7682: Income Tax Treaties

LAW 7683: Transfer Pricing

LAW 7905: Independent Study

LAW 7910: Supervised Research

LAW 7911: Federal Tax Research

LAW 7931: Current Federal Tax Problems

Tourism, Recreation, and Sport Management Department

[College of Health and Human Performance](#)

Chair: Michael Sagas.

Graduate Coordinator: Stephen Holland.

Complete faculty listing: [Follow this link.](#)

The degree Master of Science is offered by the Department of Tourism, Recreation, and Sport Management with programs in sport management and in recreation, parks, and tourism. Both programs offer thesis and non-thesis formats. The Department participates in the Ph.D. program in Health and Human Performance. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Master's program provides advanced preparation of tourism, recreation, and parks and sport management professionals for positions of leadership in planning, developing, administering, and marketing of programs in a variety of employment settings; public and private. Concentrations of study may be developed in a number of areas, such as:

- Natural resource recreation management
- Tourism and commercial recreation
- Campus recreation
- Recreation administration and supervision
- Sport management

The Doctoral program is offered through the College of Health and Human Performance with concentrations in tourism; natural resource recreation and sport management. These interdisciplinary specializations blend course work and research. The curriculum is individualized, and applicants with degrees from unrelated fields can be accepted into the program. However, their previous work will be evaluated and their programs planned according to their individual needs, interests, and career objectives.

Combined program: The Department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of approximately one semester. Up to 12 approved graduate credit hours can be utilized toward both degrees.

MS/MSM Concurrent Degree Program: This joint degree program is offered through the College of Business Administration (Master of Science in Business Management [MSM]) and the College of Health and Human Performance's, Department of Tourism, Recreation and Sport Management (Master of Science in Sport Management [MS]). Applicants must apply to both programs and be admitted to both to participate. The MS/MSM is a non-thesis degree. The MS/MSM is designed for students who seek a graduate business degree and who lack the work experience necessary for admission to the MBA program. The MS/MSM curriculum is similar to the first year of the MBA program, giving students a good foundation in business principles. Concurrent degree students can share up to 9 credit hours of the same coursework towards both degree programs. They do not have to graduate during the same semester. Students admitted into the concurrent program must work closely with both departments to verify all requirements are being met during their course of study.

MS/J.D. joint program: This 98-credit-hour joint degree program culminates in the Master of Science and the Juris Doctor degrees. Applicants must meet the entrance requirements for the Department of Tourism, Recreation, and Sport Management and the College of Law. Admission to the second degree program is required no later than the end of the fourth consecutive semester after beginning one of the degree programs. The student's supervisory committee comprises faculty members from both the Department of Tourism, Recreation, and Sport Management and the College of Law. Students admitted into the joint program are permitted to share up to 12 credit hours of the same coursework towards both degree programs. Students must graduate during the same semester from both programs.

HLP 6535: Research Methods in Health and Human Performance

HLP 7979: Advanced Research in Health and Human Performance

HLP 7980: Research for Doctoral Dissertation

HMG 6076: Introduction to Hospitality and Tourism

HMG 6608: Hospitality Law and Risk Management

HMG 6747: Marketing in Hospitality/Tourism

LEI 5121: Outdoor Recreation and Park Management

LEI 5188: Trends in Leisure Studies

LEI 6108: Contemporary Theories of Recreation and Leisure

LEI 6325: Ecotourism

LEI 6326: Sport Tourism

LEI 6336: Tourism Planning and Development

LEI 6351: Heritage Tourism

LEI 6439: Campus Recreation Administration and Programming

LEI 6513: Administrative Procedures in Leisure Services

LEI 6514: Administrative Issues in Recreation, Parks, and Tourism

LEI 6557: Recreation Management/Development in the Coastal Zone

LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism

LEI 6895: Tourism Theory and Concepts

LEI 6903: Readings in Recreation, Parks, and Tourism

LEI 6905: Directed Independent Study

LEI 6910: Supervised Research

LEI 6931: Special Topics in Recreation, Parks, and Tourism

LEI 6935: Seminar in Recreation, Parks, and Tourism

LEI 6940: Supervised Teaching

LEI 6944: Practicum in Leisure Studies

LEI 6971: Research for Master's Thesis

LEI 7170: Foundations of Leisure Behavior

LEI 7901: Recreation, Parks, and Tourism in Higher Education

LEI 7904: Advanced Readings in Recreation, Parks, and Tourism

LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism

LEI 7910: Advanced Supervised Research

LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism

LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism

SPM 5016: Sport Sociology

SPM 5206: Sport Ethics

SPM 5309: Sport Marketing

SPM 5506: Sport Finance

SPM 5936: Current Topics in Sport Management

SPM 6006: Contemporary Sport Industry

SPM 6036: Research Seminar in Sport Management

SPM 6106: Management and Planning of Sport and Physical Activity Facilities

SPM 6158: Management and Leadership in Sport

SPM 6308: Study of Sport Consumer Behaviors

SPM 6726: Issues in Sport Law

SPM 6905: Directed Independent Study

SPM 6910: Supervised Research

SPM 6947: Graduate Internship in Sport Management

SPM 6948: Advanced Practicum in Sport Management

SPM 6971: Research for Master's Thesis

Urban and Regional Planning Department

Director of School of Landscape Architecture and Planning: Kristin Larsen

Chair: Joseli Macedo

Graduate Coordinator: Stanley Latimer

Graduate Coordinator of Online Degree program: Ferdinand Lewis

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy: The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in Design, Construction, and Planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Arts in Urban and Regional Planning: The Department of Urban and Regional Planning offers graduate work leading to the degree of Master of Arts in Urban and Regional Planning (M.A.U.R.P.). Students are encouraged to enter the program in the fall semester. The program is usually completed in two academic years. The student entering with an undergraduate degree and no graduate study must complete 52 hours of credit for the M.A.U.R.P. degree. Students who have a master's degree in a related field may transfer up to 18 graduate semester hours toward the 52 hour requirement. Such a transfer of credit requires the approval of the Department. The Department encourages students with any undergraduate degree who are interested in the field of planning to apply for admission.

Complete descriptions of the requirements for the M.A.U.R.P. and Ph.D. degrees are provided in the *General Information* section of this catalog.

The urban and regional planning curriculum is designed to provide a set of core studies and contextual projects which prepare the graduate for the practice of planning in public or private agencies at both national and international levels. The core studies include history and theory of planning; planning methods; growth management at local, regional, and state levels; and related studies in community and regional social, natural, and economic systems. Contextual projects include, among many subject areas, urban design, transportation, regional planning, community redevelopment and preservation, housing, real estate, and economic development. The program emphasizes planning policies, and design for the physical environment. Current specializations include growth management and transportation, urban design, housing, community and economic development, information technologies for planning, and environmental planning. Students are also encouraged to take advantage of the extensive faculty, course offerings, and other resources available in the College of Design, Construction, and Planning and throughout the University. The Department has two research centers: The Geo-facilities Planning and Information Center (GeoPlan), the Center for Building Better Communities (CBBC), and the Center for Health and the Built Environment (CHBE).

The curriculum is supported by an extensive GIS laboratory, and a visual aid library. Variation from the core studies may be approved by the Department if the student can demonstrate education and experience to the faculty that would support such an alternative. The M.A.U.R.P. degree is accredited by the Planning Accreditation Board, a joint undertaking of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning, for having achieved the highest applicable standards for graduate education in the field of planning.

Graduates of the Department are prepared to practice urban and regional planning.

The Department of Urban and Regional Planning and the College of Law offer a joint degree program (see *Requirements for Master's Degrees* in the *General Information* section of this catalog). Areas of concentration with other programs in the Graduate School may be developed to meet the individual needs of students. In addition to course work the student is required to complete an internship with a public or private planning office and the student must complete a thesis.

The Department reserves the right to retain student work for purposes of record, exhibition, or instruction.

URP 6042: Urban Economy

URP 6061: Planning Administration and Ethics

URP 6100: Planning Theory and History

URP 6122: Alternative Conflict Management

URP 6131: Growth Management Powers I

URP 6132: Growth Management Seminar

URP 6203: Planning Research Design

URP 6231: Quantitative Data Analysis for Planners

URP 6270: Survey of Planning Information Systems

URP 6271: Planning Information Systems

URP 6272: Advanced Planning Information Systems

URP 6274: GPS for Planners: Introduction to Global Positioning System

URP 6275: Spatial Database Design and Development

URP 6276: Internet Geographic Information Systems

URP 6277: Land Use Visioning and Analysis

URP 6312: Land Development Planning and Evaluation

URP 6341: Urban Planning Project

URP 6421: Environmental Impact Statements

URP 6424: Sustainable Urbanism in the Americas

URP 6428: Advanced Environmental Planning

URP 6429: Natural Resources Planning and Management

URP 6445: Planning for Climate Change

URP 6526: Health and the Built Environment

URP 6541: Economic Development Planning

URP 6542: Urban Land Economics

URP 6543: Seminar in Capital Improvement Finance

URP 6547: Local Public Finance for Urban Planners

URP 6601: State Planning

URP 6603: Development Review

URP 6610: International Development Planning

URP 6711: Transportation and Land Use Coordination

URP 6716: Transportation Policy and Planning

URP 6718: Bikeways Planning and Design

URP 6743: Affordable Housing Law

URP 6745: Housing, Public Policy, and Planning

URP 6746: Topical Debates in Housing

URP 6821: Transportation and Land-Use Modeling

URP 6855: Urban Form in Cities throughout the Americas

URP 6871: Planning and Design I

URP 6872: Planning and Design II

URP 6880: Defensible Space and CPTED in Urban Design

URP 6884: Community Conservation and Revitalization

URP 6887: Advanced Defensible Space in Urban Design

URP 6905: Exploration and Directed Study

URP 6910: Supervised Research

URP 6920: Colloquium

URP 6931: Topical Seminar

URP 6933: Planning Information Seminar

URP 6940: Supervised Teaching

URP 6941: Urban Planning Internship

URP 6971: Research for Master's Thesis

URP 6979: Terminal Project

Wildlife Ecology and Conservation Department

[College of Agricultural and Life Sciences](#)

Chair: Eric C. Hellgren

Graduate Coordinator: Kathryn E. Sieving

Complete faculty listing by department: [Follow this link.](#)

The Department of Wildlife Ecology and Conservation offers Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees in wildlife ecology and conservation. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Program emphases include wildlife biology, ecology, and management; landscape ecology and restoration; human dimensions; tropical and international conservation; and conservation education. Graduate students should have appropriate undergraduate training in the biological, social, and physical sciences including physics, chemistry, and mathematics. Students with inadequate backgrounds may be required to take (without credit at the graduate level) remedial undergraduate courses pertinent to their fields of interest.

For more information, please see our website: <http://www.wec.ufl.edu>.

WS 5496: Research Design in Wildlife Ecology

WS 5521: Plant-Animal Interactions

WS 5555C: Conservation Biology

WS 6444: Advanced Wetlands Ecology

WS 6455: Wildlife Population Ecology

WS 6466: Wildlife Population Modeling

WS 6468C: Pattern and Process in Landscape Ecology

WS 6525: Environmental Interpretation

WS 6543: Wildlife and Agriculture

WS 6544: Administration in Natural Resources

WS 6575: Mammalian Carnivores: Conservation and Management Issues

WS 6578: Human Dimensions of Biological Conservation

WS 6905: Research Problems in Wildlife and Range Sciences

WS 6910: Supervised Research

WS 6933: Seminar

WS 6934: Topics in Wildlife and Range Sciences

WS 6940: Supervised Teaching

WS 6971: Research for Master's Thesis

WS 7979: Advanced Research

WS 7980: Research for Doctoral Dissertation

Women's Studies Department

Director: Bonnie Moradi

Graduate Coordinator: Kendal Broad

Complete faculty listing by department: [Follow this link.](#)

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as a two certificates. These options give students the opportunity to take advantage of scholarship in this dynamic field, and to become acquainted with different research perspectives and methodologies. Students become well grounded in theories of gender in cultural systems and in ways that gender intersects with other categories of difference such as race, ethnicity, religion, class, sexuality, nation, physical and mental ability, age, and economic and civil status. Faculty and students employ feminist and other appropriate theoretical approaches and methodologies.

The Center offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring. The Center in Ustler Hall houses archives, a small library, offices, and meeting space.

For more information about our program, please see the program page below or our website: <http://web.wst.ufl.edu>.

WST 5933: Proseminar in Women's Studies

WST 6348: Ecofeminism

WST 6508: Advanced Feminist Theory

WST 6905: Independent Study

WST 6935: Special Topics in Women's Studies

WST 6936: Feminist Challenges to Disciplinary Paradigms

WST 6946: Internship in Applied Women's Studies and Gender Research

WST 6957: International Studies in Women's Studies and Gender Research

WST 6971: Research for Master's Thesis

DCP Courses - filtered

College of Design, Construction, and Planning

Dean: C. Silver

Complete faculty listings: [Follow this link.](#)

DCP is home to five independent professional disciplines: architecture, construction management, interior design, landscape architecture and urban and regional planning. The college also is home to an interdisciplinary program in historic preservation, which allows graduate students to gain expertise in research and application of historic preservation in the United States and abroad.

Accreditation and Degrees

The academic programs in the college have an accreditation process from the professional organizations of each discipline.

- Architecture – National Architectural Accrediting Board
- Construction Management – American Council for Construction Education
- Interior Design – Foundation for Interior Design Education Research
- Landscape Architecture – American Society of Landscape Architects
- Urban and Regional Planning – Planning Accreditation Board

DCP offers both undergraduate and graduate degrees and programs. Through its academic units, the college offers doctoral, master's, and bachelor's degrees, as well as distance education programs, combined degrees, joint degrees, certificate programs, and academic minors.

College Institutes, Centers and Programs

Research and service projects conducted through the research centers and institutes often entail multidisciplinary, cross-campus student input and effort. Each division of the college is involved in on-going projects that advance both scholarly study and professional practice. The college contributes to community, state, regional and national efforts to conserve and improve the quality of the natural and built environments through its research centers. The college's teaching and research programs have national and international prominence.

For more information, please see our website: <http://www.dcp.ufl.edu>

[Departments and Programs within the College of Design, Construction, and Planning](#)

[College of Design, Construction, and Planning Courses](#)

BCN 5874: Equipment and Methods for Heavy Construction

BCN 5885: Methods and Management for Heavy Construction

DCP 6205: Ecological Issues in Sustainability and the Built Environment

DCP 6211: Preservation Topics, Issues, and Practice

DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning

DCP 6710: History and Theory of Historic Preservation

DCP 6711: History of the Built Environment for Preservation Practice

DCP 6712: Preservation Technology: Conserving Modern Buildings

DCP 6713: Historic Preservation: Principles, Practice, and Engineering

DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation

DCP 6715: Preservation Building Technology

DCP 6716: Cultural Resource Management

DCP 6730: Preservation Policy

DCP 6905: Independent Study

DCP 6931: Special Topics in Design, Construction, and Planning

DCP 6943: Practicum in Historic Preservation

DCP 6971: Research for Master's Thesis

DCP 7790: Doctoral Core I

DCP 7792: Doctoral Core II**DCP 7794: Doctoral Seminar****DCP 7911: Advanced Design, Construction, and Planning Research I****DCP 7940: Supervised Teaching****DCP 7949: Professional Internship****DCP 7979: Advanced Research****DCP 7980: Research for Doctoral Dissertation****School of Architecture**

Director: M. Gold.

Graduate Coordinator: N. M. Clark.

Complete faculty listing [Follow this link](#).

Doctor of Philosophy: The college offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization in this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, Box 115701.

Master of Architecture: The School of Architecture offers graduate work leading to the first professional degree, Master of Architecture. During graduate studies, each student has the opportunity to focus on one or more areas, including design, history and theory, urban design, preservation, structures, and technology. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design. The student's overall college experience, both undergraduate and graduate programs, is intended to be a complete unit of professional education leading to practice in architecture or related fields.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Florida School of Architecture offers the following NAAB-accredited degree programs:

Master of Architecture (pre-professional degree + 52 graduate credits) Master of Architecture (professional degree + 30 graduate credits) Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits)

Master of Architecture (pre-professional degree + 52 graduate credits) : For those students who have a 4-year baccalaureate degree from an accredited architectural program, 2 years in residence (52 credits) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. Course sequences in history and theory, technology, structures, and practice must also be completed.

Master of Architecture (professional degree + 30 graduate credits): For students who have a baccalaureate degree with an architecture or related major (interior design, landscape architecture) and who have completed 4 or 6 architecture or design studies courses, three years of residence (83 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4071](#), [ARC 4072](#), [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. (Undergraduate courses 3000 and 4000 level in the major do not count toward the minimum requirements for the graduate degree.) Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits): For students with a baccalaureate degree in a nonrelated academic area and have completed fewer than 4 design studies courses, 4 years of residence (112 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4071](#), [ARC 4072](#), [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or project. Undergraduate courses 3000 and 4000 level in the major do not count toward the 52-hour minimum requirements for the graduate degree. Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Accredited 5-year professional base: For students with a baccalaureate degree in architecture from an accredited 5-year professional degree program, a 1-year degree program is available. In these cases, a specialized curriculum is developed that complements the needs of the applicant. Minimum registration is 30 credits; however, the minimum may increase if transcript reviews show that further course work is needed to meet registration and curriculum requirements. [ARC 6356](#) is a prerequisite for the thesis or master's project.

Most states require individuals intending to become architects to hold an accredited degree. The National Architectural Accrediting Board acknowledges two types of degrees: the Bachelor of Architecture (minimum 5 five years of study); and the Master of Architecture (minimum 3 years of study after an unrelated bachelor's degree, or 2 years after a related pre-professional bachelor's degree). These professional degrees educate those who aspire to registration and licensure to practice as architects.

Student work: The College may retain student work for the purpose of record, exhibition, or instruction.

Master of Science in Architectural Studies: The M.S.A.S. is a nonprofessional degree for advanced investigations in specialized areas of architectural history, architectural pedagogy, theory, technology, design, preservation, or practice. Students with a bachelor's degree in any discipline from an accredited university are eligible to apply to this program; the proposed area of focus should be precisely defined in the application. This is a 3- to 4-semester program (32 hours minimum) that includes a thesis. (No more than 6 hours of [ARC 6971](#) may be counted in the minimum credit hours for the degree.) Interdisciplinary study is encouraged. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design.

The School sponsors special curricula in architecture to enhance the academic program. *Preservation Institute: Caribbean*, *Preservation Institute: Nantucket*, and *Vicenza Institute of Architecture (Italy)* accepts students from the University of Florida, and also from academic circles throughout the United States and the world for year-round study. Any student in a graduate architecture program at the University of Florida may apply for one or more of these programs.

Requirements for the M.Arch., M.S.A.S., and Ph.D. degrees are described in the *General Information* section of this catalog.

The School also participates in a program granting an Interdisciplinary Concentration and Certificate in Sustainable Architecture. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Applications: All applications for fall term graduate admission (including official transcripts, GRE scores, and TOEFL scores, if necessary) must be received by the Office of the Registrar by January 15. In addition to satisfying University requirements for admission, applicants are required to submit to the Graduate Program Assistant, School of Architecture, 231 ARCH, Box 115702, the following: a portfolio of their creative work; a scholarly statement of intent and objectives; and three letters of recommendation. This material must be received by January 15 to be considered for admission in the next fall term. Students may apply after the January 15 deadline but will only be considered if spaces become available. (Updates of portfolios are accepted after January 15; however, applications will not be considered until they are complete.)

The School reserves the right to retain student work for purposes of record, exhibition, or instruction. Field trips are required of all students; students should plan to have adequate funds available. It may be necessary to assess studio fees to defray costs of base maps and other generally used materials.

ARC 5791: Topics in Architectural History

ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction

ARC 5810: Techniques of Architectural Documentation

ARC 6116: Drawing toward Architecture

ARC 6176: Advanced Computer-Aided Design

ARC 6212: Topics in Phenomena and Architecture

ARC 6226: Intercultural Perspectives in Architecture

ARC 6228: Film and Architecture

ARC 6241: Advanced Studio I

ARC 6242: Research Methods

ARC 6280: Advanced Topics in Architectural Practice

ARC 6281: Professional Practice

ARC 6311C: Building Information Modeling

ARC 6355: Advanced Studio II

ARC 6356: Advanced Studio III

ARC 6357: Advanced Topics in Architectural Design

ARC 6383: St. Augustine Interdisciplinary Design Studio

ARC 6391: Architecture, Energy, and Ecology

ARC 6393: Advanced Architectural Connections

ARC 6399: Advanced Topics in Urban Design

ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete

ARC 6512: Structural Modeling

ARC 6576: Architectural Structures

ARC 6611: Advanced Topics in Architectural Technology

ARC 6621: Graduate Environmental Technology 2

ARC 6642: Architectural Acoustic Design Laboratory

ARC 6643: Architectural Acoustics

ARC 6685: Life Safety, Sanitation, and Plumbing Systems

ARC 6705: Graduate Architectural History 3

ARC 6711: Architecture of the Ancient World

ARC 6750: Architectural History: America

ARC 6773: Strains of Modernism

ARC 6793: Advanced Topics in Regional Architecture

ARC 6805: Architectural Conservation

ARC 6821: Preservation Problems and Processes

ARC 6822: Preservation Programming and Design

ARC 6851: Technology of Preservation: Materials and Methods I

ARC 6852: Technology of Preservation: Materials and Methods II

ARC 6883: Vernacular Architecture & Sustainability

ARC 6911: Architectural Research

ARC 6912: Architectural Research II

ARC 6913: Architectural Research III

ARC 6932: Advanced Topics in Architectural Methods

ARC 6933: Sustainable Site Design

ARC 6934: European Approach to Sustainable Design

ARC 6935: Seminar in Sustainable Design

ARC 6940: Supervised Teaching

ARC 6971: Research for Master's Thesis

ARC 6979: Master's Research Project

M.E. Rinker, Sr., School of Construction Management

Director: Robert Ries

Director of Master's Programs: Robert E. Minchin

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary doctoral program in design, construction, and planning. Areas of specialization in the program include architecture, construction management, interior design, landscape architecture, and urban and regional planning. Within the area of construction management, specialization options include sustainable construction, information systems, construction safety, affordable housing, productivity, and human resource management. These specializations prepare students to assume college-level faculty positions and industry research positions in construction management and the building sciences. For more information on the Ph.D. program, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701. For information on the specializations in the Rinker School of Construction Management, write to the Director of Graduate and Distance Education, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703.

The M.E. Rinker Sr. School offers courses leading to the degrees of Master of Science in Construction Management (thesis), Master of Construction Management (nonthesis), and Master of International Construction Management (nonthesis distance education program for experienced professionals). An individual plan of study is prepared for each student to insure that the student's goals are achieved within the broad policy guidelines of the Rinker School. Specialization may be in such areas as construction management, sustainable construction, information systems, construction safety, and construction law. Requirements for the M.B.C., M.S.B.C., M.I.C.M., and Ph.D. degrees are given in the General Information section of this catalog.

Master of Construction Management (M.C.M) or Master of Science in Construction Management (M.S.C.M): To be eligible for admission to the M.C.M. or M.S.C. programs, a student must hold a 4-year undergraduate degree in building construction or its equivalent in related fields. "Equivalent in related fields" should include studies in construction materials and methods, structures, and management. Students with deficiencies in these related fields may need longer residence for the master's degree, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement.

No more than 3 credits of [BCN 6971](#) may be used to satisfy the credit requirements for the M.S.C.M. degree without written permission of the Director of Master's Programs.

Master of International Construction Management (M.I.C.M): This program prepares students to assume upper-level management responsibilities in a multinational company. To be eligible for admission to the M.I.C.M. program, a student must have

- A 4-year undergraduate degree
- At least 5 years of meaningful, supervisory-level construction management experience
- Acceptable GRE scores (verbal and quantitative)
- A grade point average of 3.0 on a 4.0 scale
- Employer sponsorship
- International students must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

No more 3 credits of [ICM 6934](#) may be used to satisfy the credit requirements for the M.I.C.M. without written permission of the Director. All candidates are required to take ICM 6930. In addition to these 6 research-oriented graduate credit hours, the student selects one or two areas of emphasis and then takes the rest of the required 33 credit hours from the remaining courses and special electives. All candidates are required to pass a comprehensive oral and/or written examination at the completion of the course work and their master's research report/project.

The M.E. Rinker Sr. School reserves the right to retain student work for purposes of record, exhibition, or instruction.

Research facilities: The Shimberg Center for Housing Studies, operating within the School, researches the problems and possible solutions associated with developing and producing affordable housing. The Powell Center for Construction and the Environment conducts research on implementing sustainability in creating, operating, and constructing a built environment. The Fluor Program for Construction Safety researches and disseminates information on matters related to construction safety and health. The Center for Advanced Construction Information Modeling educates members of the AECO industry about new and emerging technologies in virtual design and construction.

Combined program: The School offers a combined bachelor's/master's degree program. Contact the Director of Master's Programs for information.

For more information, please see our website: <http://www.bcn.ufl.edu>.

BCN 5470: Construction Methods Improvements

BCN 5618C: Comprehensive Estimating

BCN 5625: Construction Cost Analysis

BCN 5705C: Project Management for Construction

BCN 5715: Advanced Construction Labor Problems

BCN 5722: Advanced Construction Planning and Control

BCN 5729: Design-Build Delivery Methods

BCN 5737: Advanced Issues in Construction Safety and Health

BCN 5754C: Site Development

BCN 5776: International Construction Business Management

BCN 5778: Facilities Operation and Maintenance

BCN 5789C: Construction Project Delivery

BCN 5905: Special Studies in Construction

BCN 5949: Graduate Construction Management Internship

BCN 5957: Advanced International Studies in Construction

BCN 6036: Research Methods in Construction

BCN 6580: High-Performance Green Building Delivery Systems

BCN 6585: Sustainable Construction

BCN 6586: Construction Ecology and Metabolism

BCN 6621: Bidding Strategy

BCN 6641: Construction Value Engineering

BCN 6748: Construction Law

BCN 6755: Construction Financial Management

BCN 6756: Housing Economics and Policy

BCN 6777: Construction Management Processes

BCN 6785: Construction Information Systems

BCN 6905: Directed Independent Study in Construction

BCN 6910: Supervised Research

BCN 6933: Advanced Construction Management

BCN 6934: Construction Research

BCN 6940: Supervised Teaching

BCN 6971: Research for Master's Thesis

FES 6705: Communications in Emergency Management

FES 6724: Fire and Emergency Services Response Planning

FES 6726: Hazard Mitigation and Preparedness

FES 6735: International Emergency/Disaster Management

FES 6736: Homeland Security and Emergency Management

FES 6786: Research Methods in FES

FES 6806: Disaster Response and Recovery

FES 6826: Emergency Services - Disaster Planning

FES 6827: Business Continuity and Disaster Planning

FES 6836: Impacts of Natural and Man-made Disasters on Buildings

FES 6916: Research for Master's Report

FES 6940: Practicum in FES

ICM 5905: Special Studies

ICM 6420: Commercial Management and Cost Control

ICM 6440: Construction Value Management

ICM 6680: Principles of International Sustainable Construction

ICM 6682: Construction Ecology and Metabolism

ICM 6684: High-Performance Green Building Delivery Systems

ICM 6710: Construction Human Resource Management

ICM 6750: Managing Construction Information Technology

ICM 6751: International Construction Management

ICM 6752: Construction Finance and Investment

ICM 6761: Advanced Planning, Scheduling, and Logistics

ICM 6762: Construction Risk Management

ICM 6770: Advanced Project Safety Management**ICM 6772: International Strategic Management****ICM 6905: Directed Independent Study in International Construction****ICM 6910: Supervised Research****ICM 6930: Construction Communication and Research****ICM 6934: International Construction Research****Interior Design Department**

Chair: M. Portillo.

Graduate Coordinator: N. Park

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy:

The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Interior Design:

The Master of Interior Design (M.I.D.) provides opportunities for students to direct their attention toward a variety of topics, including

- Design pedagogy and processes
- Sustainable, safe, and secure environments
- Creative performance and innovation
- Built heritage conservation.

Regardless of the study emphasis selected by the student, the M.I.D. program has a central focus with three categories of course work:

- Design studio
- Seminars in current interior design topics
- Theories and methods of research.

All M.I.D. students must complete an approved research topic with a written thesis. Requirements for the M.I.D. and Ph.D. degrees are given in the *General Information* section of this catalog.

Applications:

All applications must include acceptable GRE scores, transcripts for all previous academic work, and if the applicant's native language is not English, a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute. This information must be received in the Office of the Registrar by February 2. In addition to satisfying University requirements for admission, the applicants are required to submit to the Graduate Program Assistant, Department of Interior Design, 336 Architecture, P.O. Box 115705, University of Florida, Gainesville, FL 32611-5705, the following

- A portfolio of your design work (if applicable). The portfolio must be accompanied by a self-addressed, stamped envelope.
- A written essay on your goals and aspirations related to graduate studies
- Three letters of recommendation.
- A personal interview is not required, but many applicants choose to visit the campus and Department as a part of the application process.

Students enrolled in the Bachelor of Interior Design program at the University of Florida may apply to the M.I.D. program during their junior year (see below).

The Department reserves the right to retain student course work for the purposes of record, exhibition, or instruction. Field trips are required for all students; students should plan to have adequate funds available. Students are required to purchase a computer for course work. It may be necessary to assess studio fees to defray costs of base maps, plans, and other generally used materials.

Admission: Applications are processed through February 2 for fall term and all applicants are encouraged to apply as soon as possible. Admission decisions are made between February and the end of April. All new students begin their studies in the fall to coincide with curriculum sequencing.

Graduate course requirements according to background: After assessment of previous design work, leveling courses may be required to prepare the student for the M.I.D. 36 hours of graduate course work. Therefore, each student entering the Master of Interior Design program works with the graduate coordinator to evaluate the student's unique background to determine the specific courses needed to facilitate interest and experience. Estimated credit hours and length of study time vary according to each student's individual baccalaureate degree and experience.

There are four options.

- For students enrolled in the Bachelor of Design program at the University of Florida, 12 hours of graduate-level course work in the senior year can be counted for both the undergraduate and the M.I.D. degrees. An additional 24 graduate credit hours are required. Expect at least 1 additional year to complete the M.I.D.
- For students who graduated from a Council of Interior Design Accreditation (CIDA) accredited first professional degree program within an architectural framework, the course of study is estimated to be 36 graduate credit hours. Expect 2 years to complete the M.I.D.
- For students who graduated from a design-related (architecture or interior design) baccalaureate degree program, the course of study is estimated to be a maximum of 59 graduate credit hours (includes the 36-hour M.I.D.). Expect 3 years to complete leveling courses and the master's degree.
- For students with a bachelor's degree in a field other than design, the course of study is estimated to be 86 undergraduate and graduate credit hours. Expect 3 to 4 years to complete leveling courses and the M.I.D.

Estimates of the number of credit hours and length of study time may be adjusted based on the individual student's previous preparation including experience as a practicing designer, architect, or other professional.

Program requirements: After leveling courses are completed and with approval by the graduate coordinator and supervisory committee chair, a student completes 24 hours of departmentally approved graduate work in the Department of Interior Design. In addition, with the graduate coordinator's approval, the student is required to take 3 hours of course work in graduate statistics and 9 hours of multidisciplinary graduate electives that reinforce and extend the research.

Courses from such academic units as Psychology, Anthropology, Sociology, Engineering Education, and Business Administration provide possible electives. The College of Design, Construction and Planning offers the Certificate in Historic Preservation. If the focus of a student is the renovation and preservation of built environments, then historic preservation courses leading to a certificate would strengthen the research and design effort. Likewise, existing appropriate courses in Architecture, Landscape Architecture, Urban and Regional Planning, and Building Construction offer both collaborative study and research opportunities for M.I.D students.

Each student must select a two-member supervisory committee to guide course selection and to guide thesis selection, study, and production.

IND 5023: Introduction to Architectural Interiors

IND 5106: History of Interior Design I

IND 5136: History of Interior Design II

IND 5212C: Architectural Interiors I

IND 5213C: Introduction to Architectural Interiors Lab

IND 5227C: Advanced Architectural Interiors I

IND 5231C: Architectural Interiors II

IND 5232C: Advanced Architectural Interiors II

IND 5317C: Interior Design Communication Systems

IND 5326: Color Theory Planning and Practice

IND 5427C: Interior Design Construction Documents

IND 5428: Materials for Interior Design

IND 5434C: Interior Lighting

IND 5445C: Furniture Design

IND 5454C: Advanced Interior Design Detailing and Construction Documents

IND 5464C: Computer Applications in Three-Dimensional Design

IND 5466: Interior Environmental Technology

IND 5508: Business and Professional Practices for Interior Designers

IND 5638: Design Environments and Human Interaction

IND 5937: Current Topics in Interior Design

IND 6239: Advanced Topics in Interior Design Studio

IND 6639: Methods of Interior Design Research

IND 6906: Independent Studies and Readings

IND 6940: Supervised Teaching

IND 6941: Interior Design Internship

IND 6971: Research for Master's Thesis

Landscape Architecture Department

[College of Design, Construction, and Planning](#)

Chair: Gina Guruchari

Graduate Coordinator: Kevin Thompson

Complete faculty listing by department: [Follow this link](#)

The mission of the Department of Landscape Architecture is to advance the ethical, creative, and skillful application of the art and the science of planning and designing urban, rural and natural environments. The Master of Landscape Architecture seeks excellence through professional practice and service, and through research and scholarly pursuit.

Interstate field trips are required as a part of the normal program curriculum. Students should plan to have adequate funds for field trips and for studio materials. Students are also required to own a laptop computer meeting minimum department requirements. These specifications are available through the department of Landscape Architecture's website at URL: <http://www.dcp.ufl.edu/landscape>.

The Graduate program in Landscape Architecture offers flexibility in meeting the needs of applicants with varied backgrounds. Students entering the graduate program in landscape architecture follow one of the four following tracks:

Pre MLA Program

Graduate students who do not possess an LAAB accredited professional degree in landscape architecture are invited to enroll in the Pre MLA program.

The Pre MLA Program aids the development of basic analytical, design and graphic skills. Upon successful completion of the Pre MLA Summer term, students advance into a two-semester sequence of articulation courses that provide a foundation of applied landscape design and planning theory as well as competencies in landscape construction.

MLA Advanced Graduate Studies Program

Graduate students having completed the Pre MLA program or entering the MLA program with an LAAB accredited professional baccalaureate degree in Landscape Architecture commence a two year program of advanced graduate coursework towards the completion of the MLA degree.

MLA Program + Construction

Graduate students with a non-accredited or non-LAAB accredited degree in Landscape Architecture may apply directly to the MLA program but may be required to take additional coursework to develop core competencies required for advanced graduate study.

MLA Research Degree

Graduate students with an LAAB accredited professional degree in Landscape Architecture and a significant history of achievement in professional practice may tailor a program of advanced study to meet their specific needs. Proposals for the MLA Research Degree option are reviewed by the Graduate Coordinator and an approved course of study is determined through consultation with the Graduate Committee.

The normal tenure of advanced graduate study is five semesters which includes a summer semester internship. Students complete a minimum of 52 credit hours composed of lecture courses, seminars, design and construction studios, internship and individual study (special studies, supervised research and thesis or terminal project).

This time period would be extended should a student elect to expand the course work or seek a concurrent degree in a related field.

Design studios: Graduate design studios build on required lecture and seminar courses. A core of three advanced design studios are topically-oriented focusing on issues of human, ecological and regional concern. Each studio requires students to engage a method appropriate to the studio's selected projects, to analyze the findings generated by this research and to use the findings to build a rational argument that leads to a defensible design position. Interdisciplinary and multidisciplinary collaborations are encouraged on both a formal and an informal basis. Graduate studio projects also deal with current issues related to the mission of the Department with an additional focus on research and community service.

Thesis or terminal project: The Department recognizes that students have different professional goals and personal strengths and interests. A thesis is appropriate for students interested in further research or teaching, or in pursuing advanced degrees. A project (with a significant research component) is appropriate for students interested in design or project-oriented aspects of landscape architecture, or if their specific areas of interest suggest a nontraditional approach.

Programs, centers, and institutes: The College of Design, Construction, and Planning has several research centers and institutes. The course work and summer sessions afforded by these programs offer both required and elective course work for graduate students in landscape architecture:

The Center for Landscape Conservation Planning: The Center for Landscape Conservation Planning conducts applied research on the relationship between conservation and land use while providing learning opportunities for students.

The Center for International Design and Planning: The Center for International Design and Planning conducts interdisciplinary research with a focus on emerging design and planning trends in an era of globalization with a focus on resilient development systems and adaptive design and planning strategies.

The Preservation Institute: Nantucket gives students an opportunity to receive specialized educational experience in a broad range of preservation topics using Nantucket as a resource for case-study projects.

The Preservation Institute: Caribbean gives students an opportunity to conduct and apply research regarding the conservation of the rich cultural traditions of the Greater Caribbean basin.

The GEOPLAN Center is dedicated to the development of geographic and spatial information systems. Graduate students receive instruction in geographic information systems and are involved in a multidisciplinary studio that applies the tools and systems understanding afforded by GIS.

Graduate advisement: Students are initially advised by the Graduate Coordinator. He or she has guided the student's application through the acceptance process and is familiar with the student's background and needs. A plan of study is developed that includes required and optional courses. By the end of the second semester of study, each student is required to form a supervisory committee composed of two faculty members. The primary purpose of the graduate committee is to advise the student on educational objectives and the thesis or terminal project course work.

Application Procedure

Details of application procedure are found on the Department of Landscape Architecture's website. Applicants are encouraged to familiarize themselves with the details of the application procedures and the application requirements. Applications will ONLY be considered for the track for which they have been submitted. Make certain you are applying to the correct track based on your background and credentials and the criteria detailed above.

Application Dates

Applications are to be completed and submitted prior to the deadline noted on the Department's website. Unless otherwise noted, international applications must be received by November 1st. Applications from within the US are to be received no later than February 1st. Early applications are encouraged.

Application materials to be submitted online and/or to the Office of the Registrar

Application materials include the online application form accompanied by official transcripts, Letters of Recommendation, GRE scores, and TOEFL scores (applicants with English as a second language) to Office of the Registrar: Admissions Section, Criser Hall, University of Florida, Gainesville, Florida 32611.

Application Materials to be submitted directly to the Department

In addition to the materials submitted to the registrar's office, applicants must also submit a letter of intention to the Department of Landscape Architecture (Graduate Program Assistant).

Application Portfolio

All applicants are encouraged to submit a portfolio of creative works.

Post professional degree applicants applying for either the Pre MLA Fall Start or MLA Advanced Graduate Study program are required to submit a portfolio that both exhibits creative work experience and shows evidence of acquired technical proficiencies in the practice of landscape architecture.

All portfolio must be digital. PDF is preferred.

Application Status

Applications will be processed once all material has been received and must be complete prior to the application deadline. Applicants will be contacted by the Program Assistant if their application is incomplete. Please respond quickly if you have been contacted to increase the chances of your application being considered in the current review period. Only completed applications will be processed for review.

Once the application has been processed for review, applicants will receive written notification of their application status, generally sometime in the middle of March. Please do not contact the department with inquiries of your application status prior to the end of March.

Preparatory courses (see Undergraduate Catalog): LAA 2330, LAA 2350, LAA 2360, LAA 2370, LAA 3420, LAA 3350, LAA 3352, LAA 3421, LAA 3550, [LAA 6716](#), and ORH 3513.

LAA 5331: Site Design Methodologies

LAA 5366: Principles of Landscape Architecture

LAA 6231: Landscape Architecture Theory

LAA 6322: Project Management for Landscape Architects

LAA 6342: Landscape Architecture Criticism

LAA 6349C: Design Communications for Landscape Architects

LAA 6382: Ecological and Environmental Policy

LAA 6525L: Advanced Landscape Construction Design

LAA 6536: Landscape Management

LAA 6656C: Advanced Landscape Architectural Design

LAA 6713: Cultural Landscapes

LAA 6716: History of Landscape Architecture

LAA 6905: Directed Study

LAA 6931: Water Conservation through Site Design and Green Roofs

LAA 6931C: Special Topics

LAA 6933: Topics in European Design: Paris, France

LAA 6935: Gardens of the World

LAA 6941: Supervised Internship

LAA 6952C: European Landscape Architecture Studio

LAA 6971: Research for Master's Thesis

LAA 6979: Terminal Project

Urban and Regional Planning Department

Director of School of Landscape Architecture and Planning: Kristin Larsen

Chair: Joseli Macedo

Graduate Coordinator: Stanley Latimer

Graduate Coordinator of Online Degree program: Ferdinand Lewis

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy: The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in Design, Construction, and Planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Arts in Urban and Regional Planning: The Department of Urban and Regional Planning offers graduate work leading to the degree of Master of Arts in Urban and Regional Planning (M.A.U.R.P.). Students are encouraged to enter the program in the fall semester. The program is usually completed in two academic years. The student entering with an

undergraduate degree and no graduate study must complete 52 hours of credit for the M.A.U.R.P. degree. Students who have a master's degree in a related field may transfer up to 18 graduate semester hours toward the 52 hour requirement. Such a transfer of credit requires the approval of the Department. The Department encourages students with any undergraduate degree who are interested in the field of planning to apply for admission.

Complete descriptions of the requirements for the M.A.U.R.P. and Ph.D. degrees are provided in the *General Information* section of this catalog.

The urban and regional planning curriculum is designed to provide a set of core studies and contextual projects which prepare the graduate for the practice of planning in public or private agencies at both national and international levels. The core studies include history and theory of planning; planning methods; growth management at local, regional, and state levels; and related studies in community and regional social, natural, and economic systems. Contextual projects include, among many subject areas, urban design, transportation, regional planning, community redevelopment and preservation, housing, real estate, and economic development. The program emphasizes planning policies, and design for the physical environment. Current specializations include growth management and transportation, urban design, housing, community and economic development, information technologies for planning, and environmental planning. Students are also encouraged to take advantage of the extensive faculty, course offerings, and other resources available in the College of Design, Construction, and Planning and throughout the University. The Department has two research centers: The Geo-facilities Planning and Information Center (GeoPlan), the Center for Building Better Communities (CBBC), and the Center for Health and the Built Environment (CHBE).

The curriculum is supported by an extensive GIS laboratory, and a visual aid library. Variation from the core studies may be approved by the Department if the student can demonstrate education and experience to the faculty that would support such an alternative. The M.A.U.R.P. degree is accredited by the Planning Accreditation Board, a joint undertaking of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning, for having achieved the highest applicable standards for graduate education in the field of planning. Graduates of the Department are prepared to practice urban and regional planning.

The Department of Urban and Regional Planning and the College of Law offer a joint degree program (see *Requirements for Master's Degrees* in the *General Information* section of this catalog). Areas of concentration with other programs in the Graduate School may be developed to meet the individual needs of students. In addition to course work the student is required to complete an internship with a public or private planning office and the student must complete a thesis.

The Department reserves the right to retain student work for purposes of record, exhibition, or instruction.

URP 6042: Urban Economy

URP 6061: Planning Administration and Ethics

URP 6100: Planning Theory and History

URP 6122: Alternative Conflict Management

URP 6131: Growth Management Powers I

URP 6132: Growth Management Seminar

URP 6203: Planning Research Design

URP 6231: Quantitative Data Analysis for Planners

URP 6270: Survey of Planning Information Systems

URP 6271: Planning Information Systems

URP 6272: Advanced Planning Information Systems

URP 6274: GPS for Planners: Introduction to Global Positioning System

URP 6275: Spatial Database Design and Development

URP 6276: Internet Geographic Information Systems

URP 6277: Land Use Visioning and Analysis

URP 6312: Land Development Planning and Evaluation

URP 6341: Urban Planning Project

URP 6421: Environmental Impact Statements

URP 6424: Sustainable Urbanism in the Americas

URP 6428: Advanced Environmental Planning

URP 6429: Natural Resources Planning and Management

URP 6445: Planning for Climate Change

URP 6526: Health and the Built Environment

URP 6541: Economic Development Planning

URP 6542: Urban Land Economics

URP 6543: Seminar in Capital Improvement Finance

URP 6547: Local Public Finance for Urban Planners

URP 6601: State Planning

URP 6603: Development Review

URP 6610: International Development Planning

URP 6711: Transportation and Land Use Coordination

URP 6716: Transportation Policy and Planning

URP 6718: Bikeways Planning and Design

URP 6743: Affordable Housing Law

URP 6745: Housing, Public Policy, and Planning

URP 6746: Topical Debates in Housing

URP 6821: Transportation and Land-Use Modeling

URP 6855: Urban Form in Cities throughout the Americas

URP 6871: Planning and Design I

URP 6872: Planning and Design II

URP 6880: Defensible Space and CPTED in Urban Design

URP 6884: Community Conservation and Revitalization

URP 6887: Advanced Defensible Space in Urban Design

URP 6905: Exploration and Directed Study

URP 6910: Supervised Research

URP 6920: Colloquium

URP 6931: Topical Seminar

URP 6933: Planning Information Seminar

URP 6940: Supervised Teaching

URP 6941: Urban Planning Internship

URP 6971: Research for Master's Thesis

URP 6979: Terminal Project

Dentistry Courses - filtered

College of Dentistry

Interim Dean: Boyd Robinson
Associate Dean & Director: Roberta Pileggi

Complete faculty listings: [Follow this link.](#)

Advanced education has progressed over the years to be an integral component of the College of Dentistry, growing from six certificate residency programs, with an enrollment of only 36 students in 1979, to fourteen certificate programs and various fellowship programs. Enrollment is now over 140. In 1993, the college started master degree programs in endodontics, orthodontics, periodontics and prosthodontics, and continues today to grow.

Follow this link for more information about UF's College of Dentistry graduate programs: <http://admissions.dental.ufl.edu/advanced-graduate-programs/programs-application-process/>

[Departments and Programs within the College of Dentistry](#)

[College of Dentistry Courses](#)

Dental Sciences Department

[College of Dentistry](#)

Endodontics Chair and Graduate Coordinator: Roberta Pileggi
Orthodontics Chair and Graduate Coordinator: Calogero Dolce
Periodontology Chair: Ikramuddin Aukhil; Graduate Coordinator: Rodrigo Neiva
Restorative Dental Sciences Interim Chair: William Willis; Graduate Coordinator: Edgar O'Neill

Complete faculty listing: [Follow this link.](#)

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1

The application deadline of Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402

Requirements for the M.S. degree are provided in the [Graduate Degrees](#) section of this catalog

For further information, see the Dental Science program link below.

DEN 6602: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 1: Class I Treatment

DEN 6603: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 2: Class II Treatment

DEN 6604: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 3: Class II Treatment and Overbite Treatments

DEN 6605: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 4: Class II Treatment and Overbite Treatments

DEN 6606: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 5: Class III and Crossbite Treatments and Soft Tissue Considerations

DEN 6607: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 6: Impactions, Transplantations and Stability

DEN 6608: Analysis, Diagnosis, and Treatment Planning: Part I

DEN 6609: Analysis, Diagnosis, and Treatment Planning: Part II

DEN 6610: Biology of Tooth Movement: Part I

DEN 6612: Orthodontic Biomechanics: Part I

DEN 6613: Orthodontic Biomechanics: Part II

DEN 6614: Ortho-Perio Relationships: Part I

DEN 6615: Ortho-Perio Relationships: Part II

DEN 6616: Orthognathic Surgery: Part I

DEN 6617: Orthognathic Surgery: Part II

DEN 6618: Postnatal Growth and Development

DEN 6622: Principles of Occlusion

DEN 6623: Maxillofacial Prosthetics

DEN 6624: Dental Implant Restoration

DEN 6625: Fixed Prosthodontic Ceramics

DEN 6626: Advanced Removable Partial Dentures

DEN 6627: Treatment Planning Seminar

DEN 6642: Introduction to Advanced Endodontics

DEN 6643: Treatment Planning/Cases Presentation

DEN 6644: Nonsurgical Endodontic Care I

DEN 6645: Nonsurgical Endodontic Care II

DEN 6646: Surgical Endodontics I

DEN 6647: Surgical Endodontics II

DEN 6652: Review of Periodontics Literature I

DEN 6653: Review of Periodontics Literature II

DEN 6654: Review of Periodontics Literature III

DEN 6655: Review of Periodontics Literature IV

DEN 6656: Introduction to Advanced Periodontology

DEN 6657: Periodontal Histology and Histopathology

DEN 6658: Treatment Planning in Periodontal Therapy

DEN 6670: Craniofacial Anomalies

DEN 6671: Prenatal Growth and Development

DEN 6672: Materials in Orthodontics

DEN 6674: Advanced Oral Pathology

DEN 6675: Craniofacial Pain

DEN 6678: Advanced Oral Medicine and Drug Interactions in Dentistry

DEN 6679: Advanced Radiology and Interpretation

DEN 6680: Principles and Craniofacial Biology and Emerging Therapies

DEN 6681: Craniofacial Pathobiology

DEN 6905: Individual Study

DEN 6910: Supervised Research

DEN 6934: Special Topics in Dentistry

DEN 6935: Special Topics in Dentistry

DEN 6936: Practice Management

DEN 6940: Supervised Teaching

DEN 6941: Clinical Teaching in Dentistry

DEN 6942: Grand Rounds

DEN 6971: Research for Master's Thesis

DEN 6973: Project in Lieu of Thesis

Departments

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Agricultural Education and Communication Department

Chair: E. W. Osborne

Graduate Coordinator: B. E. Myers

Complete faculty listing by department: [Follow this link.](#)

The Department of Agricultural Education and Communication offers the degrees of Master of Science and Doctor of Philosophy. Graduate students who obtain a degree in Agricultural Education and Communication will focus their study in one of four areas of specialization. The areas of specialization are agricultural communication, agricultural education, extension education, and leadership development. These degree programs are individually tailored to meet the student's unique needs for professional development. The requirements for each degree are described in the [Graduate Degrees](#) section of the University of Florida Graduate Catalog. More information about our program can be found by following the link below.

Agronomy Department

Chair: R. A. Gilbert

Graduate Coordinator: L. E. Sollenberger

Complete faculty listing by department: [Follow this link.](#)

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis options) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agricultural and natural ecosystems in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Animal Sciences Department

Chair: G. E. Dahl

Graduate Coordinator: G. Adesogan

Complete faculty listing by department: [Follow this link.](#)

Animal Sciences is an academic department of the [College of Agriculture and Life Sciences \(CALS\)](#), a unit of the [Institute of Food and Agricultural Sciences \(IFAS\)](#). Creating new solutions to tomorrow's problems underlies everything we do in the Animal Sciences Program. In the areas of teaching, research, and extension, our faculty integrates the most modern technologies available with personal expertise and attention to the needs of students and our industry. For more information about the Animal Sciences program, please follow the link below.

Anthropology Department

Chair: S. deFrance

Graduate Coordinator: P. Collings

Complete faculty listing by department: [Follow this link.](#)

The Anthropology Department takes pride in maintaining a holistic perspective, bridging the four traditional fields that have composed the discipline: sociocultural, archaeological, biological, and linguistic anthropology. Both graduate students and faculty conduct research that cut across the four-fields, and extend anthropological investigations into other disciplines.

The graduate program is a mentoring program emphasizing the PhD degree. Students are mentored by faculty advisors, together with supervisory committees chosen by students with the advice of advisors. Graduate students are expected to be in residence to attend classes and seminars, and receive individualized training. Distance-education graduate degrees are not offered. Students formally report on their progress each year, and the progress of each graduate student is evaluated by the faculty in their primary field.

Students receiving graduate degrees are well-prepared intellectually and professionally for success in a wide variety of careers, and become leaders in developing the next generation of anthropology. The department offers teaching experience and resources for presenting conference papers, submitting grant proposals, conducting fieldwork, and other activities appropriate to their professionalization. Graduate students are welcome to contribute to discussions in departmental meetings, and serve on some departmental committees.

Applied Physiology and Kinesiology Department

Chair: S. Dodd

Graduate Coordinator: E. Christou

Complete faculty listing by department: [Follow this link.](#)

The **Ph.D. program** is offered with concentrations in biobehavioral science and exercise physiology. Students in the biobehavioral science concentration specialize in one of four areas: biomechanics, exercise / performance psychology, motor control / learning or sports medicine. These interdisciplinary concentrations focus on preparing students as researchers with a blend of course work and research training.

A program leading to the **Master of Science** degree in applied physiology and kinesiology (thesis and non-thesis options) is also offered. Areas of concentration for the master's program include athletic training/sports medicine, biobehavioral science, clinical exercise physiology, exercise physiology, and human performance. The thesis option gives the student an opportunity to study, conduct research, and prepare a thesis in an area of special interest. The non-thesis option offers the student a specialization in a selected area of study, with additional work in other areas. A comprehensive written examination is required for this option, as is a capstone internship experience. Requirements for these degrees are given in the *General Information* section of this catalog.

Athletic training/sports medicine: This concentration provides comprehensive academic preparation, research, and clinical experience in the areas of injury prevention, assessment, treatment, rehabilitation, and therapeutic modalities.

Biobehavioral Science: This thesis mandatory concentration is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in one of several related disciplines: biomechanics, motor control and learning, and exercise and performance psychology. Each area of specialization is briefly described below.

- **Biomechanics:** The specialization in biomechanics draws from the fields of neuroscience, engineering, and medicine. The course work and training include kinematics and kinetics of movement. Course work also includes anatomy/kinesiology, biomechanics, engineering neuroscience, medicine, psychology, physical therapy, and statistics.
- **Motor learning / control:** This interdisciplinary specialization draws on experiences and a knowledge base in the movement and sport sciences, cognitive sciences, and physical therapy. Students are prepared to conduct research and provide expertise in traditional motor performance and learning settings.
- **Exercise / performance psychology:** This area of specialization provides the basis for understanding and influencing the underlying thought processes and attitudes that will ultimately determine the performance of individuals involved in sport, exercise, and other achievement oriented activities. The primary emphasis is to develop the scientific background and skills necessary for doctoral training and research.

Clinical exercise physiology: The purpose of this non-thesis program is to give students the opportunity to develop advanced knowledge and competencies in Exercise Physiology. Clinical Exercise Physiologists typically practice in hospitals, clinics and wellness centers as part of a health care team that administers tests and develops programs of exercise, counseling, and education for patients with cardiopulmonary, metabolic, and musculoskeletal diseases.

Exercise physiology: This thesis mandatory area of concentration is concerned with the scientific study of how the various physiological systems of the human body respond to physical activity. It is a multidisciplinary field with strong ties to the basic life sciences and medicine, and application to clinical, normal, and athletic populations.

Human performance: This non-thesis master's concentration merges a range of specializations within the Department into a curriculum that provides educational experiences to graduate students interested in studying the factors that determine human performance in both athletic and nonathletic domains. This flexible approach allows students to focus on specific applications that best meet their individual interests. Human performance incorporates components such as nutrition, psychology, motor behavior, and physiology that are applicable to athletic and clinical populations.

Astronomy Department

Chair: C. Telesco

Graduate Coordinator: V. Sarajedini.

Complete faculty listing by department: [Follow this link.](#)

The University of Florida's Astronomy Department is one of the largest in the country. Research is an integral part of the graduate program. Students have opportunities to work with faculty

and staff on a broad range of astronomical problems using in-house, national and international, and ground- and space-based facilities. Support for graduate studies is available through fellowships, research assistantships, and teaching assistantships. For more information on the program, please follow the link below or visit [our website](#).

Behavioral Science and Community Health Department

Chair: B. Curbow

Complete faculty listing by department: [Follow this link](#).

The Department of Behavioral Science & Community Health (BSCH) is one of nine academic departments housed in the School of Public Health and Health Professions at the University of Florida. This department offers a Doctor of Philosophy (PhD) degree (SBS track). For more information about the program, please visit the link below.

Biochemistry and Molecular Biology Department

Chair: James B. Flanagan.

Graduate Coordinator: Kevin Brown

Complete faculty listing by department: [Follow this link](#).

Biochemistry and Molecular Biology Department faculty mentor Ph.D. students in the College of Medicine interdisciplinary program (IDP) in medical sciences. Students interested in pursuing a doctoral degree can view specific features of the biochemistry and molecular biology concentration at <http://biochem.med.ufl.edu/> and <http://idp.med.ufl.edu>. For admission information, visit the IDP website. Department faculty also mentor Ph.D. students in other college programs and participate actively in the research and teaching functions of various centers such as the Center for Epigenetics and the Center for Structural Biology. The Department offers a wide variety of courses for graduate students studying in the life sciences. The research expertise of the faculty spans the areas from cell biology, metabolism, and molecular biology to physical biochemistry/structural biology. Current research interests include viral protease inhibitors, viral RNA replication, bioenergetics and proton translocation, X-chromosome structure and function, cytoskeletal assembly and dynamics, enzyme mechanism and control, chromatin structure, gene expression and regulation, mitochondrial biogenesis and evolution, the genetics of inherited disease, nutrient membrane transporters, protein site-directed mutagenesis, ribosome structure and function, signal transduction, structural biology and dynamics of macromolecules, protein-nucleic acid interactions, transgenic animal models, and virus crystal structure. Prospective graduate students should have adequate training in chemistry and biology. Minor deficiencies may be made up immediately after entering graduate school. Previous undergraduate experience in a research laboratory is highly recommended. Doctoral students are required to take a core IDP course in fall term of their first year; and beginning in spring term, students take advanced classes in areas of interest. Specific advanced-level courses may be recommended by the student's supervisory chair and committee. The following courses are open to all graduate students and advanced undergraduates. Additional courses are listed in the Advanced Concentration in Biochemistry and Molecular Biology section under Medical Sciences.

Biology Department

[College of Liberal Arts and Sciences](#)

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

Complete faculty listing by department: [Follow this link](#).

The Department of Biology offers two graduate programs: Botany and Zoology. Both programs offer graduate work leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

More information regarding these programs is available by following the links below and by visiting our departmental website: <http://www.biology.ufl.edu>.

Biomedical Engineering Department

Chair: C. Schmidt

Graduate Coordinator: D. Hintenlang

Complete faculty listing by department: [Follow this link](#).

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine. The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research. The BME Department currently focuses in: neural engineering, biomaterials, tissue engineering, biomechanics, nanomedicine, biomedical imaging and medical physics. A concentration in Medical Physics is available at both the M.S. and Ph.D. level and prepares students for clinical or research careers in medical imaging or radiation therapy. The Medical Physics concentration is fully accredited by CAMPEP. Additional information on admissions requirements, faculty, and research projects is available at: <http://www.bme.ufl.edu>.

BME graduate students are admitted directly through the BME Department. The BME Graduate Academic Committee reviews and makes all decisions regarding admission. Each student's research adviser must hold a Graduate Faculty appointment in the BME Department. Supervisory committees for BME students normally include at least one member from the College of Engineering and one from the College of Medicine to emphasize the need for a clinical focus in the research.

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Interim Chair: Samuel Wu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link](#).

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: P. Qiu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/curriculum-overview/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/ms-curriculum-overview/>.

Chemical Engineering Department

Chair: R. Dickinson.

Graduate Coordinator: A. Chauhan.

Complete faculty listing by department: [Follow this link.](#)

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering

Chemistry Department

Chair: W. Dolbier

Graduate Coordinator: B. W. Smith

Complete faculty listing: [Follow this link.](#)

The Department of Chemistry granted its first master's degree in 1909 and the first Ph.D. in 1930. Specializations in biochemistry, organic, physical, inorganic and analytical are offered with extensive interdisciplinary research opportunities (e.g., bio/nano-science, particle science, green chemistry, polymer chemistry, chemical physics, health related biochemistry, chemistry-engineering, and genomics).

The Department presently offers the Master of Science and Doctor of Philosophy degrees with a major in chemistry. The non-thesis Master of Science in Teaching degree is also offered with a major in chemistry.

Civil and Coastal Engineering Department

Chair: K. Hatfield

Graduate Coordinator: A. Drescher

Complete faculty listing by department: [Follow this link.](#)

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in [CGN 6974](#) for civil engineering majors, or [FOC 6905](#) for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Classics Department

Chair: Victoria Pagin.

Graduate Coordinator: Jennifer Rea.

Complete faculty listing: [Follow this link.](#)

The department offers the following degrees and programs: the Doctor of Philosophy in classical studies; the Master of Arts degree in classical studies or Latin; the Master of Latin degree, and the Master of Arts in Teaching degree in Latin. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Within the Ph.D. program are three tracks:

- Philology (prepares students for careers in colleges and universities)
- Classical civilization (available via distance course work)
- Latin and Roman studies (available via distance course work).

Requirements for the philology track of the doctoral degree include:

- 60 credit hours after the M.A. (or a total of 90 credit hours)
- Five additional seminars after the M.A. in classics at the 500 level or higher
- Three of the following seminars: [GRE 6425](#), [GRW 6105](#), [LAT 6425](#), [LNW 6105](#), and [CLA 6805](#)
- A reading knowledge of two modern languages, one of which must be German
- Reading lists in Greek and Roman authors
- Supervised experience in teaching Latin, Greek, or civilization courses is advised
- Successful completion of a series of qualifying examinations appropriate to the chosen specialization (Greek reading Latin reading classical Greek literature in its historical context; classical Latin literature in its historical context; special author/topic)
- An oral preliminary examination, dissertation, and final examination

The M.A. degree in classical studies is recommended for students who plan to continue on to the doctoral level. The M.A. degree in Latin is recommended for students who plan to pursue a career in secondary teaching. Both M.A. programs require 30 credit hours, including 6 credits of [GRW 6971](#) or [LNW 6971](#), a thesis, and final examination.

The Master of Latin degree is a non-thesis degree, designed for currently employed and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of classics, and enhance their professional qualifications through a program of summer course work and directed independent study and/or distance learning courses during the regular academic year. The Master of Arts in Teaching, a non-thesis degree, is offered with a program in Latin and is intended for students preparing to teach in community colleges or high schools.

Clinical and Health Psychology Department

[College of Public Health and Health Professions](#)

Department Chair: William W. Latimer.

Graduate Coordinator: S.R. Boggs.

Complete faculty listing: [Follow this link.](#)

The Department of Clinical and Health Psychology is a unit of the College of Public Health and Health Professions. The department's programs are its doctoral clinical psychology studies leading to the Ph.D. degree in psychology; an American Psychological Association accredited doctoral internship program; and postdoctoral studies and research. Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

The clinical psychology doctoral curriculum adheres to the scientist-practitioner model of education and training. Program strengths include research, education, and professional training in health care psychology, with organized areas of concentration in clinical health psychology, clinical child/pediatric psychology, neuropsychology, neurorehabilitation and clinical neuroscience, and emotion neuroscience/psychopathology. Education and training experiences are also available in rural psychology. Interested students can apply for acceptance into the Public Health Program and obtain dual M.P.H./Ph.D. degrees.

Progress in the program is determined by departmental policies which are consistent with American Psychological Association accreditation standards. The curriculum has been continuously accredited by the American Psychological Association since 1953.

Admission to the Department is through appropriate application to the Department's admission committee. A bachelor's degree is generally adequate preparation for graduate admission. It should include undergraduate courses in both experimental psychology and statistics, along with at least three courses from the following psychology areas: developmental, learning, perception, personality, physiological, and social.

For more information, please see the program page below and our website: <http://chp.phhp.ufl.edu>.

Comparative Law Department

Director and Graduate Coordinator: P.A. Malavet.

Complete faculty listing by department: [Follow this link.](#)

The LL.M. in Comparative Law degree is designed for graduates of foreign law schools who want to enhance their understanding of the American legal system and the English common law system from which it evolved. Requirements for this degree are given in the *General Information* section of this catalog.

The program begins with Introduction to American Law, a 4-credit summer course that gives students a foundation in the American legal process. It also helps students acclimate to the College of Law and the University community before to the start of the academic year. During the fall and spring terms, and with the director's approval, students choose their remaining 22 credits from more than 100 Juris Doctor and LL.M. in Taxation courses and seminars. For admission information consult the *College of Law Prospectus* or write to the Comparative Law Office P.O. Box 117643, University of Florida, Gainesville, FL 32611-7643 USA.

Computer and Information Science and Engineering Department

[College of Liberal Arts and Sciences](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir.

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, Engineer, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.

- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Computer and Information Science and Engineering Department

[College of Engineering](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Dental Sciences Department

[College of Dentistry](#)

Endodontics Chair and Graduate Coordinator: Roberta Pileggi
 Orthodontics Chair and Graduate Coordinator: Calogero Dolce
 Periodontology Chair: Ikramuddin Aukhil; Graduate Coordinator: Rodrigo Neiva
 Restorative Dental Sciences Interim Chair: William Willis; Graduate Coordinator: Edgar O'Neill

Complete faculty listing: [Follow this link.](#)

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1
 The application deadline for Orthodontics is September 2

Send applications to:

Master of Science Program,
 College of Dentistry,
 P.O. Box 100402,
 Health Science Center,
 University of Florida,
 Gainesville, FL 32610-0402

Requirements for the M.S. degree are provided in the [Graduate Degrees](#) section of this catalog

For further information, see the Dental Science program link below.

Department of Health Education & Behavior

Chair: Jalie A. Tucker

Graduate Coordinator: Christine B. Stopka

Complete faculty listing by department: [Follow this link.](#)

The Department of Health Education & Behavior offers a Doctor of Philosophy (Ph.D.) in Health and Human Performance with a concentration in Health Behavior, a non-thesis 30-credit hour Master of Science and a 36-credit Master of Science (M.S.) in Health Education and Behavior. Requirements for the Ph.D. and M.S. degrees are given in the *General Information* section of this catalog

The Ph.D. degree program trains health behavior researchers for academic positions in federal health agencies such as the Centers for Disease Control and Prevention and the National Institutes of Health for postdoctoral research fellowships and for the private sector.

The 30-credit hour, non-thesis M.S. degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector. Full-time students can complete this M.S. option in one year. This degree may also give students unique and distinguishing training experiences when applying to professional schools such as law, medicine, physician assistant, dentistry, chiropractic, osteopathy, nursing, occupational therapy, and physical therapy.

The 36-credit hour project in lieu of thesis, and the 36-credit hour thesis options are designed for students interested in developing research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically can complete these options in about 4 semesters.

The Department also offers an accelerated B.S./M.S. program in health education and behavior to enable students to receive both B.S. and M.S. degrees with a reduction of 12 credits (about one semester of course work).

Students who complete a graduate degree program in the Department of Health Education & Behavior acquire a range of skills required to research, plan, implement, and evaluate health promotion policies and programs aimed at improving the health and well-being of individuals, families, and communities. Specific skills include:

- Conducting needs and capacity assessments to identify health priorities
- Planning, implementing, and evaluating health promotion policies and programs
- Conducting research on questions associated with health problems and their determinants and health promotion policies and programs
- Administering and managing health promotion programs
- Advocating for health promotion policies and programs in schools, communities, health care facilities, and worksites
- Developing social marketing and health communication messages and campaigns
- Researching and developing social media and new media-based health promotion applications
- Serving as a resource person for health information and referrals
- Using a variety of teaching-learning strategies appropriate to the target audience and setting
- Writing scholarly and professional articles
- Working collaboratively with public and private agencies, nongovernmental organizations (NGOs) and the private sector to achieve the goal of a healthier population.

This degree prepares the health promotion specialists and health behavior scientists to work in:

- Local, state, and federal health, education and social agencies
- Nongovernmental health organizations
- Schools and universities
- Healthcare settings
- Private sector

Sample position titles for individuals with this degree include:

- Health education specialist

- Health promotion specialist
- Public health adviser or public health analyst
- Health promotion coordinator or health promotion consultant
- Campus health educator or patient health educator,
- Health communication specialist
- Wellness specialist
- Wellness promotion coordinator
- Prevention specialist

For additional information, visit <http://www.hhp.ufl.edu/heh>.

Department of Languages, Literatures and Cultures

Complete faculty listing by department: [Follow this link](#).

Digital Worlds Institute

[College of the Arts](#)

Director: James C. Oliverio

Graduate Coordinator: Marko Suvajdzic

Complete faculty listing: [Follow this link](#).

The Digital Worlds Institute exists to nurture leading edge education between the arts, communications, engineering and the sciences, utilizing advanced media systems and digital culture. By bringing together the diverse talents of University of Florida faculty, students, and staff in a multifaceted collaborative environment, the Institute serves as a platform for interdisciplinary research and teaching that would not have occurred within the confines of any one college or department. Through the use of interactive tools and technologies, the Institute promotes transdisciplinary creativity across classrooms, continents and cultures.

For more information, please see the program page below and our website: <http://www.digitalworlds.ufl.edu>.

Economics Department

Chair: R. D. Blair

Graduate Coordinator: S. M. Slutsky.

Complete faculty listing: [Follow this link](#).

The department offers the Master of Arts (thesis and nonthesis option) and Doctor of Philosophy degrees in economics with specializations in econometrics, economic theory, industrial organization, international economics, monetary economics, and public finance.

M.A. requirements: A minimum of 36 credits of course work is required for the M.A. with and without thesis. A maximum of six credits of the research course [ECO 6971](#) may be included for a master's degree with thesis. The following core courses are required: [ECO 7408](#) and [ECO 7404](#) or equivalent, [ECO 7415](#) or equivalent, [ECO 7115](#), and [ECO 7206](#).

Ph.D. requirements: Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) an acceptable score on the GRE, and (c) for nonnative speakers of English, an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

All core courses must be completed in the first year. In addition, students must complete courses in three fields of specializations and pass qualifying examinations in two of those fields.

Complete descriptions of the minimum requirements for the M.A. and Ph.D. degrees are provided elsewhere in this catalog

Electrical and Computer Engineering Department

Chair: J. Harris.

Graduate Coordinators: G. Bosman, J. McNair

Complete faculty listing: [Follow this link](#).

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For more information about our program, please visit the link below.

English Department

Chair: K. Kidd

Graduate Coordinator: S. I. Dobrin

Complete faculty listing by department: [Follow this link](#).

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English, along with the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. For more information about our programs, please follow the hyperlinks below or visit our website: <http://www.english.ufl.edu/programs.html>.

Entomology and Nematology Department

[College of Agricultural and Life Sciences](#)

Chair: John L. Capinera.

Graduate Coordinator: Heather J. McAuslane.

Complete faculty listing by department: [Follow this link.](#)

The Entomology and Nematology Department offers the Master of Science (thesis and nonthesis options) and Doctor of Philosophy degrees in entomology and nematology with the following specializations: entomology, nematology, and pest management. Minimum requirements for the M.S. and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

The Department also offers a cooperative Doctor of Philosophy degree with Florida A&M University and distance education courses leading to the M.S. degree. Members of the Graduate Faculty include the department resident faculty, faculty located on University of Florida campuses away from Gainesville, scientists with other State of Florida agencies such as the Division of Plant Industry and Florida Department of Agriculture and Consumer Services, and scientists of the U.S. Department of Agriculture. The Graduate Faculty is qualified to direct graduate students in all specialties of entomology, nematology, and acarology.

New graduate students should have backgrounds in biology, chemistry, physics, and mathematics. Minor deficiencies may be made up after entering graduate school.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please see the program page below, and visit our website: <http://entnemdept.ufl.edu>.

Environmental and Global Health Department

Chair: G. C. Gray

Graduate Studies Program Assistant: N. Burke

Faculty listing: [Follow this link](#)

The Department of Environmental and Global Health focuses upon environmental factors that impact human health. Department faculty, scientists, and students employ numerous disciplines in studying these environmental factors: virology, bacteriology, parasitology, entomology, toxicology, epidemiology, water sciences, veterinary health, environmental engineering, aerosol biology, wildlife health, etc. Research work often involves international travel and collaboration. A central theme for the department is the interdisciplinary thinking called [One Health](#) which reflects the collaborations necessary to tackle public health's most difficult problems. Faculty, students and staff often perform research in the laboratories in the [Emerging Pathogens Institute](#), the [Center for Environmental and Human Toxicology](#), or the [Aquatic Pathobiology Laboratory](#).

The Department of Environmental and Global Health offers graduate work leading to the degrees of Doctor of Philosophy, Master of Health Science, and Master of Public Health.

Environmental and Land Use Law Department

Director and Graduate Coordinator: Christine A. Klein

Complete faculty listing by department: [Follow this link.](#)

Florida's sensitive, varied and beautiful natural environment makes the University of Florida a natural choice for students who want to focus on the national and global issues of land use and environmental law. Florida provides a perfect setting to study first-hand the efforts to reconcile growth and conservation.

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

For more information, please see the program page below and our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>.

Environmental Engineering Sciences Department

Director: K. Hatfield

Graduate Coordinator: P. Chadik

Complete faculty listing: [Follow this link.](#)

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering Systems Ecology and Ecological Engineering; and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas. Please visit the link below for more information about our program in Environmental Engineering Sciences.

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

Family, Youth, and Community Sciences Department

Interim Chair: Tracy Irani

Graduate Coordinator: Larry F. Forthun

Complete faculty listing by department: [Follow this link](#)

The FYCS graduate program is an interdisciplinary applied social science program that prepares students for advanced degrees (e.g., Ph.D.) and careers in such areas as family and youth services, Extension and community-based education, community development and nonprofit management, program planning and evaluation, and social policy. Graduates find careers in both the public and private sectors including:

- Child and Youth Development in areas such as juvenile justice, dropout prevention programs, recreational and camp programs, and youth ministry;
- Community Development Practice in local and regional government, private nonprofit organizations (such as chambers of commerce, local development corporations, and local, national and international foundations) and citizen's groups;
- Nonprofit Organizational Management, such as management of community based, nonprofit organizations;
- Family and Social Services, such as family preservation programs, assistance for abused and neglected children and other public assistance programs; and
- Cooperative Extension Service in such areas as youth development, family and consumer sciences and community development.

Contact the graduate coordinator for more information.

Finance, Insurance, and Real Estate Department

Chair: Michael D. Ryngaert

Graduate Coordinator: Mahen Nimalendran

Complete faculty listing: [Follow this link.](#)

The Department of Finance, Insurance, and Real Estate offers graduate work leading to the Master of Science degree with major programs in finance and real estate; the Master of Science in Entrepreneurship (M.S.E.); and the Doctor of Philosophy degree in business administration with a concentration in finance, insurance, quantitative analysis, or real estate. Complete descriptions of the minimum requirements for the M.S., M.S.E., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

Finance, Real Estate, and Entrepreneurship are also available as concentrations within the M.B.A. program. For information about the M.B.A. program, please consult that listing in the [Graduate Degrees](#) section.

For more information see the program pages below, and visit our website: <http://warrington.ufl.edu/departments/fire>.

Fisher School of Accounting

[Warrington College of Business Administration](#)

Director: Gary A. McGill

Graduate Coordinators: Dominique DeSantiago, Stephen Asare

Complete faculty listing by department: [Follow this link.](#)

As a professional school in a major public research university, the Fisher School of Accounting (FSOA) is committed to scholarly research, teaching and service to advance knowledge and prepare future leaders for business, professional, and academic careers.

The Fisher School of Accounting offers graduate work leading to the Master of Accounting (M.Acc.) degree with a major in accounting, and the Ph.D. degree with a major in business administration and an accounting concentration. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below, or visit our website: <http://warrington.ufl.edu/accounting>.

Food and Resource Economics Department

[College of Agricultural and Life Sciences](#)

Interim Chair: Rodney L. Clouser

Acting Graduate Coordinator: Sherry Larkin

Complete faculty listing by department: [Follow this link](#)

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Department participates in programs with the Center for Latin American Studies, the Center for African Studies, the Center for Tropical Agriculture, the School of Natural Resources and Environment, the College of Law, and the Florida Sea Grant College Program.

The Department programs reflects the diversity of Florida's agriculture which has more than fifty major commodities. With over thirty faculty involved in a full range of research, extension, and teaching programs in areas including Agricultural Marketing, International Trade, Policy, Production/Farm Management, International Development, Marine Economics, Natural Resource and Environmental Economics, Community/Regional Development and Labor Economics. In addition to the main campus location, the department has faculty at research centers throughout the state.

Several members of the faculty have garnered international reputations in diverse fields such as trade policy, generic advertising, citrus economics, sugar policy, business retention and expansion, leadership development, consumer attitudes towards genetically modified food, and dairy marketing.

The Department offers a combined bachelor's/master's degree program for the Master of Science and Master of Science with Concentration in Agribusiness. Contact the Graduate Program Office in 1170 McCarty Hall for information.

For more information, please see the program pages below, and see our website: <http://www.fred.ifas.ufl.edu>.

Food Science and Human Nutrition Department

[College of Agricultural and Life Sciences](#)

Chair: Susan S. Percival

Graduate Coordinators: Harry S. Sitren (M.S. in Food Science and Human Nutrition / Ph.D. in Food Science), James F. Collins (Ph.D. in Nutritional Sciences)

Complete faculty listing by department: [Follow this link](#).

The Food Science and Human Nutrition Department (FSHN) is one of the world's largest combined academic programs where food science, nutritional sciences, and dietetics are all studied within one department. FSHN has nearly 30 full-time faculty members, 80 graduate assistants, and close to 1,000 undergraduate students. Our programs are accredited by the [Institute of Food Technologists](#) (IFT) and the [Academy of Nutrition and Dietetics](#). After completing undergraduate degrees, our students typically move on to professional employment, further education or training in food or nutrition graduate programs, or on to professional school programs. We have a strong record of excellent placement of our graduate students in industry and professional organization employment positions, as faculty members at colleges and universities, or in postdoctoral training experiences.

Our faculty has trained at institutions from around the world; they have been widely successful in their teaching, research, and extension efforts. Throughout our programs in food science, nutrition, and dietetics, our faculty is recognized nationally and internationally as experts in their respective fields.

The Food Science and Human Nutrition Department offers programs leading to the degrees of Master of Science in Food Science and Human Nutrition, Doctor of Philosophy in Food Science, and Doctor of Philosophy in Nutritional Sciences (offered under the auspices of the [Center for Nutritional Sciences](#)). Minimum requirements for these degrees are located in the Graduate Degrees section of this catalog.

For more information please click the links to the program pages below, or see our website: <http://fshn.ifas.ufl.edu>.

Geography Department

Chair: M. W. Binford

Graduate Coordinator: C. J. Matyas

Complete faculty listing by department: [Follow this link](#).

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

The focus of the Department is in human-environment interactions, with "environment" interpreted very broadly. The Department provides four main areas of specialization for graduate research: economic and cultural geography; resource management and land use and land cover change; medical geography; and physical geography. Economic and cultural geography concerns such topics as spatial economic theory and; housing and care of the elderly. Resource management and land-use and land-cover change focus on agricultural change and resource conservation and development in the tropics and subtropics, and rural and urban land use and land cover change in tropical and temperate regions. Africa and Latin America are the primary areas of regional emphasis outside of the U.S. Physical geography in the Department concentrates on climatology, fluvial geomorphology, and hydrology. Medical geography studies the geographic aspects of human health including disease ecology and transmission and healthcare issues. The Department's extensive geographic information system, remote sensing, and computer cartography teaching and research facilities contribute to and support all of the areas of research. Faculty from the Department are also major participants in the Emerging Pathogens Institute, Florida Climate Institute, Land Use and Environmental Change Institute (L.U.E.C.I.), and the Water Institute. Prospective students should examine the research interests of the Graduate Faculty to obtain a more detailed sense of the Department's specialties (see the departmental website: www.geog.ufl.edu).

To ensure the incorporation of relevant interdisciplinary perspectives in each student's program, the Department maintains close ties with other departments in Liberal Arts and Sciences, and with programs in African studies, Latin American studies, the School of Natural Resources and Environment, the Institute on Aging, urban and regional planning, tropical agriculture, tropical ecology, water resources, the Warrington College of Business Administration, the College of Agricultural and Life Sciences, College of Public Health and Health Professions, and the Hydrological Sciences Academic Cluster. Certificates in certain of these fields may be obtained in addition to graduate degrees in geography. Geography administers the Graduate Certificate in Applied Atmospheric Sciences.

A graduate student should preferably have an undergraduate major in geography, but applicants with degrees in one of the social or physical sciences are accepted into the Department's graduate program. Deficiencies in undergraduate work in geography must be corrected concurrently with registration in graduate level courses. All students in the graduate program are required to take courses in contemporary geographic thought and geographic research skills.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Geological Sciences Department

Chair: P. A. Mueller.

Graduate Coordinator: J. M. Jaeger.

Complete faculty listing [Follow this link](#).

The Department of Geological Sciences is composed of a group of internationally recognized faculty, graduate students, and dedicated support staff. Faculty and students in the Department of Geological Sciences are involved in exciting and groundbreaking research projects throughout the world and in Florida. The Department houses world-class analytical and computing facilities for research and teaching.

The Department has identified six primary areas of emphasis in its research and teaching programs: environmental geology and hydrology, paleoclimatology, tectonophysics, geochemistry and mineralogy/petrology, marine and coastal geology, and paleomagnetism. For more detailed information on current departmental activities, faculty, and research centers, see <http://web.geology.ufl.edu>. The Department has collaborative, interdisciplinary programs of study and research with the Florida Museum of Natural History, the Center for Wetlands Research, the Land Use and Environmental Change Institute (L.U.E.C.I.), and the hydrological sciences cluster.

Health Outcomes and Policy Department

[College of Medicine](#)

Chair: Betsy Shenkman

Graduate Coordinator: Jill Herndon

Complete faculty listing by department: [Follow this link](#).

Students can pursue either a Master of Science degree or a Graduate Certificate.

There is increasing emphasis on assessing health outcomes throughout the lifespan in a variety of health care and community settings. Nationally, the National Institute of Health and other federal and state agencies focus on the development of evidence-based programs to promote health, improve health care delivery, and enhance health outcomes.

Outcomes research generates evidence that informs health care program design in clinical and community settings, the promotion of effective clinical and community interventions, quality of care, cost-effective and clinically appropriate choices for patients in allocation of health care resources (clinical effectiveness), and incorporation of best practice models into health-related programs and policies. Outcomes research also provides mechanisms to understand how to translate research into practice and policy, how to improve the quality and efficiency of health programs, and how to achieve equitable and appropriate delivery of health programs and clinical care, particularly for underserved and vulnerable populations.

Our graduate programs are designed to train professionals in the health care and health research fields about the science that supports the development and evaluation of evidence-based clinical and community-based programs focused on improving health outcomes. Further, our programs emphasize methods for translating research into practice and policy. The unique combination of courses offered through these graduate programs will give trainees the tools needed to examine health outcomes and policies in a variety of settings across different age spans and to examine the individual, social, health system, and health policy factors that influence health outcomes.

In addition to traditional graduate students, both programs are available to medical students, post-doctoral students, fellows, residents, Ph.D. students, and junior faculty.

Health Services Research, Management, and Policy Department

Chair: Arch G. Mainous, III

Graduate Coordinator: Patricia Van Wert

Complete faculty listing: [Follow this link](#).

The Department of Health Services Research, Management, and Policy offers degree programs at both the master's and doctoral level. The Master of Health Administration (M.H.A.) prepares individuals for management positions in the health care field. The Department also participates in the Master of Public Health (M.P.H.) degree by offering a concentration in Public Health Management and Policy (more information available [here](#)).

At the doctoral level, the Department offers the Ph.D. degree in Health Services Research. This full-time program prepares graduates to investigate and evaluate the complexities of health care systems in the U.S. and elsewhere. Health services research is a multidisciplinary field that examines the delivery, organization, financing and outcomes of health care services.

Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below and our website: <http://hsrmp.pphhp.ufl.edu>.

History Department

[College of Liberal Arts and Sciences](#)

Chair: Sean P. Adams

Graduate Coordinator: Elizabeth Dale

The Department of History offers the following graduate degrees: Master of Arts with fields of specialization in African, Asian, European, Latin American, and United States history, and the Doctor of Philosophy with fields of specialization in African, European, Latin American, and United States history. In addition to materials required by the Graduate School for admission, applicants must send directly to the History Department the following evidence of aptitude and interest: Three recommendations, from persons competent to evaluate your potential for graduate work; A 3- to 5-page essay identifying your career goals and particular areas of interest; a sample of your written work in history. Interested students should consult the department web page for more information. □□

Horticultural Sciences Department

[College of Agricultural and Life Sciences](#)

Chairs : K.M. Folta (Interim Chair, Horticultural Sciences) and W. Mackay (Environmental Horticulture)
Graduate Coordinator: G. A. Moore (Horticultural Sciences) and L. Trenholm (Environmental Horticulture)

Complete faculty listing: [Follow this link](#).

The Horticultural Sciences Department Graduate Program at the University of Florida has a wide array of opportunities for graduate study.

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

The Horticultural Sciences Department offers a combined bachelor's/master's degree program. Please contact the graduate coordinator for information.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest. Details about the program and how to apply are listed on their website: <http://hos.ufl.edu>.

Human Development and Organizational Studies in Education Department

Director: Linda B. Eldridge
Graduate Coordinator: Patricia Ashton

Complete faculty listing by department: [Follow this link](#).

Programs leading to the Master of Arts in Education (M.A.E.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees are offered through this school with programs in Counseling and Counselor Education, Educational Leadership, Higher Education Administration, Marriage and Family Counseling, Mental Health Counseling, Research and Evaluation Methodology, School Counseling and Guidance, and Student Personnel in Higher Education.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

More information can be found at our website: <http://education.ufl.edu/hdose>

Industrial and Systems Engineering Department

Chair: J. Geunes.
Graduate Coordinator: J. C. Smith and P. Momcilovic.

Complete faculty listing by department: [Follow this link](#).

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Engineer degree and the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., Engineer, and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

Information Systems and Operations Management Department

[Warrington College of Business Administration](#)

Chair: Haldun Aytug
Graduate Coordinator: Praveen Pathak

Complete faculty listing: [Follow this link](#).

The primary mission of the Department of Information Systems & Operations Management is a commitment to scholarly research, teaching and service to advance the state of knowledge in information systems and supply chain management and to train future leaders for professional and academic careers.

The Department offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog

Combined Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/isom>.

Interior Design Department

Chair: M. Portillo.
Graduate Coordinator: N. Park

Complete faculty listing by department: [Follow this link](#).

Doctor of Philosophy:

The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Interior Design:

The Master of Interior Design (M.I.D.) provides opportunities for students to direct their attention toward a variety of topics, including

- Design pedagogy and processes
- Sustainable, safe, and secure environments
- Creative performance and innovation
- Built heritage conservation.

Regardless of the study emphasis selected by the student, the M.I.D. program has a central focus with three categories of course work:

- Design studio
- Seminars in current interior design topics
- Theories and methods of research.

All M.I.D. students must complete an approved research topic with a written thesis. Requirements for the M.I.D. and Ph.D. degrees are given in the *General Information* section of this catalog.

Applications:

All applications must include acceptable GRE scores, transcripts for all previous academic work, and if the applicant's native language is not English, a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute. This information must be received in the Office of the Registrar by February 2. In addition to satisfying University requirements for admission, the applicants are required to submit to the Graduate Program Assistant, Department of Interior Design, 336 Architecture, P.O. Box 115705, University of Florida, Gainesville, FL 32611-5705, the following:

- A portfolio of your design work (if applicable). The portfolio must be accompanied by a self-addressed, stamped envelope.
- A written essay on your goals and aspirations related to graduate studies
- Three letters of recommendation.
- A personal interview is not required, but many applicants choose to visit the campus and Department as a part of the application process.

Students enrolled in the Bachelor of Interior Design program at the University of Florida may apply to the M.I.D. program during their junior year (see below).

The Department reserves the right to retain student course work for the purposes of record, exhibition, or instruction. Field trips are required for all students; students should plan to have adequate funds available. Students are required to purchase a computer for course work. It may be necessary to assess studio fees to defray costs of base maps, plans, and other generally used materials.

Admission: Applications are processed through February 2 for fall term and all applicants are encouraged to apply as soon as possible. Admission decisions are made between February and the end of April. All new students begin their studies in the fall to coincide with curriculum sequencing.

Graduate course requirements according to background: After assessment of previous design work, leveling courses may be required to prepare the student for the M.I.D. 36 hours of graduate course work. Therefore, each student entering the Master of Interior Design program works with the graduate coordinator to evaluate the student's unique background to determine the specific courses needed to facilitate interest and experience. Estimated credit hours and length of study time vary according to each student's individual baccalaureate degree and experience.

There are four options.

- For students enrolled in the Bachelor of Design program at the University of Florida, 12 hours of graduate-level course work in the senior year can be counted for both the undergraduate and the M.I.D. degrees. An additional 24 graduate credit hours are required. Expect at least 1 additional year to complete the M.I.D.
- For students who graduated from a Council of Interior Design Accreditation (CIDA) accredited first professional degree program within an architectural framework, the course of study is estimated to be 36 graduate credit hours. Expect 2 years to complete the M.I.D.
- For students who graduated from a design-related (architecture or interior design) baccalaureate degree program, the course of study is estimated to be a maximum of 59 graduate credit hours (includes the 36-hour M.I.D.). Expect 3 years to complete leveling courses and the master's degree.
- For students with a bachelor's degree in a field other than design, the course of study is estimated to be 86 undergraduate and graduate credit hours. Expect 3 to 4 years to complete leveling courses and the M.I.D.

Estimates of the number of credit hours and length of study time may be adjusted based on the individual student's previous preparation including experience as a practicing designer, architect, or other professional.

Program requirements: After leveling courses are completed and with approval by the graduate coordinator and supervisory committee chair, a student completes 24 hours of departmentally approved graduate work in the Department of Interior Design. In addition, with the graduate coordinator's approval, the student is required to take 3 hours of course work in graduate statistics and 9 hours of multidisciplinary graduate electives that reinforce and extend the research.

Courses from such academic units as Psychology, Anthropology, Sociology, Engineering, Education, and Business Administration provide possible electives. The College of Design, Construction and Planning offers the Certificate in Historic Preservation. If the focus of a student is the renovation and preservation of built environments, then historic preservation courses leading to a certificate would strengthen the research and design effort. Likewise, existing appropriate courses in Architecture, Landscape Architecture, Urban and Regional Planning, and Building Construction offer both collaborative study and research opportunities for M.I.D. students.

Each student must select a two-member supervisory committee to guide course selection and to guide thesis selection, study, and production.

Landscape Architecture Department

[College of Design, Construction, and Planning](#)

Chair: Gina Gurucharri

Graduate Coordinator: Kevin Thompson

Complete faculty listing by department: [Follow this link](#)

The mission of the Department of Landscape Architecture is to advance the ethical, creative, and skillful application of the art and the science of planning and designing urban, rural and natural environments. The Master of Landscape Architecture seeks excellence through professional practice and service, and through research and scholarly pursuit.

Interstate field trips are required as a part of the normal program curriculum. Students should plan to have adequate funds for field trips and for studio materials. Students are also required to own a laptop computer meeting minimum department requirements. These specifications are available through the department of Landscape Architecture's website at URL: <http://www.dcp.ufl.edu/landscape>.

The Graduate program in Landscape Architecture offers flexibility in meeting the needs of applicants with varied backgrounds. Students entering the graduate program in landscape architecture follow one of the four following tracks:

Pre MLA Program

Graduate students who do not possess an LAAB accredited professional degree in landscape architecture are invited to enroll in the Pre MLA program.

The Pre MLA Program aids the development of basic analytical, design and graphic skills. Upon successful completion of the Pre MLA Summer term, students advance into a two-semester sequence of articulation courses that provide a foundation of applied landscape design and planning theory as well as competencies in landscape construction.

MLA Advanced Graduate Studies Program

Graduate students having completed the Pre MLA program or entering the MLA program with an LAAB accredited professional baccalaureate degree in Landscape Architecture commence a two year program of advanced graduate coursework towards the completion of the MLA degree.

MLA Program + Construction

Graduate students with a non-accredited or non-LAAB accredited degree in Landscape Architecture may apply directly to the MLA program but may be required to take additional coursework to develop core competencies required for advanced graduate study.

MLA Research Degree

Graduate students with an LAAB accredited professional degree in Landscape Architecture and a significant history of achievement in professional practice may tailor a program of advanced study to meet their specific needs. Proposals for the MLA Research Degree option are reviewed by the Graduate Coordinator and an approved course of study is determined through consultation with the Graduate Committee.

The normal tenure of advanced graduate study is five semesters which includes a summer semester internship. Students complete a minimum of 52 credit hours composed of lecture courses, seminars, design and construction studios, internship and individual study (special studies, supervised research and thesis or terminal project).

This time period would be extended should a student elect to expand the course work or seek a concurrent degree in a related field.

Design studios: Graduate design studios build on required lecture and seminar courses. A core of three advanced design studios are topically-oriented focusing on issues of human, ecological and regional concern. Each studio requires students to engage a method appropriate to the studio's selected projects, to analyze the findings generated by this research and to use the findings to build a rational argument that leads to a defensible design position. Interdisciplinary and multidisciplinary collaborations are encouraged on both a formal and an informal basis. Graduate studio projects also deal with current issues related to the mission of the Department with an additional focus on research and community service.

Thesis or terminal project: The Department recognizes that students have different professional goals and personal strengths and interests. A thesis is appropriate for students interested in further research or teaching, or in pursuing advanced degrees. A project (with a significant research component) is appropriate for students interested in design or project-oriented aspects of landscape architecture, or if their specific areas of interest suggest a nontraditional approach.

Programs, centers, and institutes: The College of Design, Construction, and Planning has several research centers and institutes. The course work and summer sessions afforded by these programs offer both required and elective course work for graduate students in landscape architecture:

The Center for Landscape Conservation Planning: The Center for Landscape Conservation Planning conducts applied research on the relationship between conservation and land use while providing learning opportunities for students.

The Center for International Design and Planning: The Center for International Design and Planning conducts interdisciplinary research with a focus on emerging design and planning trends in an era of globalization with a focus on resilient development systems and adaptive design and planning strategies.

The Preservation Institute: Nantucket gives students an opportunity to receive specialized educational experience in a broad range of preservation topics using Nantucket as a resource for case-study projects.

The Preservation Institute: Caribbean gives students an opportunity to conduct and apply research regarding the conservation of the rich cultural traditions of the Greater Caribbean basin.

The GEOPLAN Center is dedicated to the development of geographic and spatial information systems. Graduate students receive instruction in geographic information systems and are involved in a multidisciplinary studio that applies the tools and systems understanding afforded by GIS.

Graduate advisement: Students are initially advised by the Graduate Coordinator. He or she has guided the student's application through the acceptance process and is familiar with the student's background and needs. A plan of study is developed that includes required and optional courses. By the end of the second semester of study, each student is required to form a supervisory committee composed of two faculty members. The primary purpose of the graduate committee is to advise the student on educational objectives and the thesis or terminal project course work.

Application Procedure

Details of application procedure are found on the Department of Landscape Architecture's website. Applicants are encouraged to familiarize themselves with the details of the application procedures and the application requirements. Applications will ONLY be considered for the track for which they have been submitted. Make certain you are applying to the correct track based on your background and credentials and the criteria detailed above.

Application Dates

Applications are to be completed and submitted prior to the deadline noted on the Department's website. Unless otherwise noted, international applications must be received by November 1st. Applications from within the US are to be received no later than February 1st. Early applications are encouraged.

Application materials to be submitted online and/or to the Office of the Registrar

Application materials include the online application form accompanied by official transcripts, Letters of Recommendation, GRE scores, and TOEFL scores (applicants with English as a second language) to Office of the Registrar: Admissions Section, Criser Hall, University of Florida, Gainesville, Florida 32611.

Application Materials to be submitted directly to the Department

In addition to the materials submitted to the registrar's office, applicants must also submit a letter of intention to the Department of Landscape Architecture (Graduate Program Assistant).

Application Portfolio

All applicants are encouraged to submit a portfolio of creative works.

Post professional degree applicants applying for either the Pre MLA Fall Start or MLA Advanced Graduate Study program are required to submit a portfolio that both exhibits creative work experience and shows evidence of acquired technical proficiencies in the practice of landscape architecture.

All portfolio must be digital. PDF is preferred.

Application Status

Applications will be processed once all material has been received and must be complete prior to the application deadline. Applicants will be contacted by the Program Assistant if their application is incomplete. Please respond quickly if you have been contacted to increase the chances of your application being considered in the current review period. Only completed applications will be processed for review.

Once the application has been processed for review, applicants will receive written notification of their application status, generally sometime in the middle of March. Please do not contact the department with inquiries of your application status prior to the end of March.

Preparatory courses (see Undergraduate Catalog): LAA 2330, LAA 2350, LAA 2360, LAA 2370, LAA 3420, LAA 3350, LAA 3352, LAA 3421, LAA 3550, [LAA 6716](#), and ORH 3513.

Latin American Studies Department

Director: C. D. Deere.

Graduate Coordinator: R. F. Brown.

Complete faculty listing by department: [Follow this link.](#)

The Center for Latin American Studies offers the following graduate programs:

- Latin American Studies
- Sustainable Development Practice

Linguistics Department

Chair: F. McLaughlin

Graduate Coordinator: E. Potsdam

Complete faculty listing by department: [Follow this link](#)

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For detailed information on the program, please visit the link below. For further information on the program, including financial aid, please visit <http://lin.ufl.edu>.

M.E. Rinker, Sr., School of Construction Management

Director: Robert Ries

Director of Master's Programs: Robert E. Minchin

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary doctoral program in design, construction, and planning. Areas of specialization in the program include architecture, construction management, interior design, landscape architecture, and urban and regional planning. Within the area of construction management, specialization options include sustainable construction, information systems, construction safety, affordable housing, productivity, and human resource management. These specializations prepare students to assume college-level faculty positions and industry research positions in construction management and the building sciences. For more information on the Ph.D. program, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701. For information on the specializations in the Rinker School of Construction Management, write to the Director of Graduate and Distance Education, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703.

The M.E. Rinker Sr. School offers courses leading to the degrees of Master of Science in Construction Management (thesis), Master of Construction Management (nonthesis), and Master of International Construction Management (nonthesis distance education program for experienced professionals). An individual plan of study is prepared for each student to insure that the student's goals are achieved within the broad policy guidelines of the Rinker School. Specialization may be in such areas as construction management, sustainable construction, information systems, construction safety, and construction law. Requirements for the M.B.C., M.S.B.C., M.I.C.M., and Ph.D. degrees are given in the General Information section of this catalog.

Master of Construction Management (M.C.M.) or Master of Science in Construction Management (M.S.C.M.): To be eligible for admission to the M.C.M. or M.S.C. programs, a student must hold a 4-year undergraduate degree in building construction or its equivalent in related fields. "Equivalent in related fields" should include studies in construction materials and methods, structures, and management. Students with deficiencies in these related fields may need longer residence for the master's degree, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement.

No more than 3 credits of [BCN 6971](#) may be used to satisfy the credit requirements for the M.S.C.M. degree without written permission of the Director of Master's Programs.

Master of International Construction Management (M.I.C.M.): This program prepares students to assume upper-level management responsibilities in a multinational company. To be eligible for admission to the M.I.C.M. program, a student must have

- A 4-year undergraduate degree
- At least 5 years of meaningful, supervisory-level construction management experience
- Acceptable GRE scores (verbal and quantitative)
- A grade point average of 3.0 on a 4.0 scale
- Employer sponsorship
- International students must submit an acceptable score on one of the following TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

No more than 3 credits of [ICM 6934](#) may be used to satisfy the credit requirements for the M.I.C.M. without written permission of the Director. All candidates are required to take ICM 6930. In addition to these 6 research-oriented graduate credit hours, the student selects one or two areas of emphasis and then takes the rest of the required 33 credit hours from the remaining courses and special electives. All candidates are required to pass a comprehensive oral and/or written examination at the completion of the course work and their master's research report/project.

The M.E. Rinker Sr. School reserves the right to retain student work for purposes of record, exhibition, or instruction.

Research facilities: The Shimberg Center for Housing Studies, operating within the School, researches the problems and possible solutions associated with developing and producing affordable housing. The Powell Center for Construction and the Environment conducts research on implementing sustainability in creating, operating, and constructing a built environment. The Fluor Program for Construction Safety researches and disseminates information on matters related to construction safety and health. The Center for Advanced Construction Information

Modeling educates members of the AECO industry about new and emerging technologies in virtual design and construction.

Combined program: The School offers a combined bachelor's/master's degree program. Contact the Director of Master's Programs for information.

For more information, please see our website: <http://www.bcn.ufl.edu>.

Management Department

[Warrington College of Business Administration](#)

Chair: Robert E. Thomas

Graduate Coordinator: Amir Erez

Complete faculty listing: [Follow this link.](#)

The Management Department offers graduate work leading to a Ph.D. degree with a major in Business Administration and a concentration in Management; a Master of Business Administration degree with a concentration in Management; a Master of Science degree with a major in Management; and a Master of International Business (M.I.B.). Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

The Department participates in combined bachelor's/master's degree programs for the Master of International Business (M.I.B.) and Master of Science (M.S.) with a major in management. The Master of International Business is open to students pursuing a bachelor's degree in a business discipline or minor in business administration. The M.S. with a major in management program is only open to non-business majors. Contact the graduate coordinator for information.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/mgt>.

Marketing Department

Chair: Joseph W. Alba

Graduate Coordinator: Lyle A. Brenner

Complete faculty listing: [Follow this link](#)

The Marketing Department at the University of Florida is a recognized leader in the discipline of marketing. For over a decade, our faculty has ranked as one of the most productive and influential in the field. Our faculty is known for conducting provocative, cutting-edge research that contributes both to the scientific understanding and practice of marketing. Our Ph.D. program has produced many leading researchers in the discipline. And the David F. Miller Center for Retailing Education and Research is known as one of the foremost centers for developing the science of retailing.

The Marketing Department offers graduate work leading to the Ph.D. degree in business administration, the M.S. degree in business administration, and a concentration in the Master of Business Administration (M.B.A.) program. Requirements for the M.B.A., M.S., and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/departments/mkt>.

Materials Science and Engineering Department

Chair: S. Phillpot

MSE Graduate Coordinator: J. J. Mecholsky, Jr.

NE Graduate Coordinator: E. Dugan

Complete faculty listing by department: [Follow this link.](#)

The Department of Materials Science and Engineering offers the Master of Science and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

The faculties of the Department of Materials Science and Engineering (MSE) of the University of Florida (UF) and the University of Roma Tor Vergata (URTV) have approved a cooperative degree program in Materials Science and Engineering culminating in a Doctor of Philosophy degree, awarded by both universities. Contact the Department for details.

Mathematics Department

Chair: D. Cenzer
Graduate Coordinator: J. A. Larson

Complete faculty listing: [Follow this link.](#)

The Department of Mathematics offers the degrees of Doctor of Philosophy, Master of Science and Master of Arts, and the Master of Arts in Teaching and Master of Science in Teaching each with a major in mathematics. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

Interdisciplinary Programs — The Department offers a co-major program in conjunction with the Statistics Department leading to the Doctor of Philosophy degree in mathematics and statistics. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Statistics, Industrial and Systems Engineering, and Finance, Insurance, and Real Estate Departments.

Combined Program — The Department has an accelerated bachelor's/master's program designed for superior undergraduate students who have the ability to pursue such a plan of study leading to the Master of Science or Master of Arts degree. The main feature of the program is that up to 12 semester hours of approved graduate level mathematics courses may be used as dual credit for both the undergraduate and the graduate degree. All other requirements for both the bachelor's degree and the master's degree must be met. For admission requirements for this program, see the undergraduate coordinator.

There are opportunities for concentrated study in a number of specific areas of pure and applied mathematics at both the master's and doctoral levels. The faculty directs studies and research in algebra, number theory, analysis, geometry, topology, logic, differential equations, dynamical systems, probability theory, numerical analysis, numerical optimization, approximation theory, combinatorial analysis, graph theory, computer applications, biomathematics, mathematical physics, inverse problems, and medical imaging. In addition to the requirements of the Graduate School, the minimum prerequisite for admission to the program of graduate studies in mathematics is the completion, with an average grade of B or better, of at least 24 credits of undergraduate mathematics, including a full year of calculus and three semesters of appropriate work beyond the calculus. The most appropriate courses for this purpose are advanced calculus, linear algebra and abstract algebra. Students lacking part of the requirements will be required to make up the deficiency early in their graduate work. Prerequisites to individual courses should be determined before registration by consultation with the instructor concerned. Some of the courses listed are offered only as needed. Since times of offering courses are estimated a year in advance, certain changes may be made if needs are known by the Department. The courses [MAA 5228](#), [MAA 5229](#), [MAS 5311](#), and [MAS 5312](#) are required for all advanced degree programs in mathematics. The requirements for the master's degree nonthesis option include a minimum of 32 semester hours of course work. Students pursuing the master's degree in mathematics must pass two comprehensive written examinations, one in algebra and one in analysis. Students pursuing the master's degree with a specialization in applied mathematics have two options: the examination option requires passage of the algebra and analysis examinations; the thesis option requires instead the preparation and oral defense of a thesis on original research conducted under the supervision of a faculty adviser. Students pursuing the Master of Arts in Teaching or the Master of Science in Teaching degree must prepare a teaching portfolio and pass an oral examination. Each of these programs normally requires two years for completion. The requirements for a doctoral degree include 36 hours of 6000-level course work in mathematics; no hours of teaching, colloquium, dissertation, or individual work will count toward this requirement. To become a candidate for the doctoral degree, the student must pass a comprehensive preliminary examination with written and oral components administered by the Department. The doctoral student must also pass a reading knowledge examination in one of the following foreign languages: French, German, or Russian. The dissertation is an important requirement for the doctoral degree in mathematics. The topic for the dissertation may be chosen from a number of areas of current research in pure and applied mathematics. Every graduate student is expected to attend the regular colloquium. Details concerning all requirements for graduate degrees in mathematics may be obtained by writing the Mathematics Department Graduate Selection Committee or consulting the Department website, <http://www.math.ufl.edu>.

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn
Graduate Coordinator: D. W. Mikolaitis

Complete faculty listing by department: [Follow this link.](#)

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), Engineer, and Doctor of Philosophy in aerospace engineering and mechanical engineering. Minimum requirements for these degrees are given in the *General Information* section of this catalog. Additional information can be found at <http://www.mae.ufl.edu/graduate>. Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of challenging problems. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Medicinal Chemistry Department

[College of Pharmacy](#)

Chair: M. O. James.
Graduate Coordinator: H. Luesch

Complete faculty listing by department: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy degree in pharmaceutical sciences with a concentration in medicinal chemistry. Medicinal chemistry is a unique blend of the physical and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active research include organic synthesis of medicinal agents, metal chelate design, prodrugs and topical drug delivery, drug metabolism, molecular toxicology, molecular biology, combinatorial chemistry, neurochemistry, analytical chemistry, molecular modeling, natural products, and drug discovery.

The applicant should have an undergraduate degree in pharmacy, chemistry, biology, or premedical sciences. A background in calculus and physical and organic chemistry is required. In addition to graduate medicinal chemistry courses in the College of Pharmacy, graduate courses in chemistry and biochemistry are required for the program.

The College also offers the Master of Science in Pharmacy degree in pharmaceutical sciences (nonthesis option) with concentrations in both forensic drug chemistry and forensic serology and DNA in a distance learning format. Minimum requirements for the M.S.P. and Ph.D. degrees are described in the *General Information* section of this catalog.

The Department participates in the interdisciplinary concentration in toxicology. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Microbiology and Cell Science Department

Chair: E. Triplett.
Graduate Coordinator: Tony Romeo.

Complete faculty listing by department: [Follow this link.](#)

Graduate study is offered leading to the Master of Science and Doctor of Philosophy degrees in microbiology and cell science, with emphasis in one or more of the disciplines of biochemistry,

cell biology, and microbiology.

Requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog and also at the Department webpage: <http://microcell.ufl.edu/>.

Instruction and guidance are collaborative among faculty in the Colleges of Agricultural and Life Sciences, Liberal Arts and Sciences, and Medicine.

Research spans broad areas in the cellular and molecular aspects of bacterial, plant, and animal life functions: Areas of research include microbial biochemistry, biotechnology; biomass conversion; genetic and metabolic regulation; environmental microbiology; cell biology; molecular biology; molecular genetics; genomics and bioinformatics; immunology; virology; parasitology, host-pathogen interactions; cellular ultrastructure.

Prerequisites for admission to graduate study, in addition to those of the Graduate School, are a broad educational background including mathematics, physics, and chemistry through organic, analytical, and physical chemistry; basic courses in biology, botany, and/or zoology; and at least one course in microbiology and biochemistry. An undergraduate major in biochemistry, physical or chemical science, engineering, or general biology may be an acceptable alternative to a degree in microbiology or cell science. Receipt of an advanced degree requires detailed knowledge in microbiology, biochemistry, and chemistry; undergraduate deficiencies may necessitate additional course work prior to entry into the graduate program.

In addition, the Microbiology and Cell Science Department also offers a combined B.S./M.S. program that allows qualified students to earn both the Bachelor's and Master's degrees with 12 credit hours of jointly counted course work. This program is considered a "4/1" because students may be awarded both degrees within a five-year period. For further information on this program, follow this link: <http://microcell.ufl.edu/graduate-program/combined-degree-program/>.

Molecular Genetics and Microbiology Department

Chair: H. V. Baker.

Graduate Coordinator: A. S. Lewin.

Complete faculty listing by department: [Follow this link.](#)

The Graduate Faculty of the Department of Molecular Genetics and Microbiology participate in the interdisciplinary program (IDP) in medical sciences, leading to the Doctor of Philosophy degree, with specialization in one of the six advanced concentration areas of the IDP (see *Medical Sciences*). Departmental areas of research associated with the IDP focus on topical problems in molecular genetics, viral genetics, and viral and bacterial pathogenesis. Faculty in the Department of Molecular Genetics and Microbiology also participate in the M.S. programs (see *Medical Sciences*). In addition to courses associated with the IDP, the Department of Molecular Genetics and Microbiology maintains the courses listed below.

Biotechnology: This Master of Science program is for students seeking careers in the biomedical industry as research or managerial associates; students seeking careers as teachers or educators at any level, but primarily high school or junior college; or students seeking an in-depth understanding of modern biology and scientific research as an end in itself or in preparation for further graduate study. The foundation of the M.S. program is a basic understanding of molecular and cell biology and the performance of a high-quality research project, culminating in a thesis, under the direction of a skilled mentor, with supervision by a committee composed of members of the Graduate Faculty. Specialization may be in any of the fields of research being pursued at the College of Medicine including but not limited to molecular genetics, gene therapy, bacterial or viral pathogenesis, protein structure, toxicology, mammalian genetics, wound healing, and congenital eye diseases.

For more information contact the Master's Program Coordinator, Molecular Genetics and Microbiology, P.O. Box 100266, College of Medicine, Gainesville, FL 32610, Telephone (352)392-3314.

Music Department

[College of the Arts](#)

Director: J. A. Duff.

Graduate Coordinator: L. S. Odom.

Complete faculty listing by department: [Follow this link.](#)

The School of Music offers programs leading to the Master of Music degree in music and music education. Program concentrations in music include choral conducting, composition, instrumental conducting, musicology, ethnomusicology, music theory, performance, and sacred music. In addition, the School of Music offers the Doctor of Philosophy degree in music and in music education.

The Ph.D. program in music education emphasizes college music teaching. The Ph.D. program in music includes concentrations in:

- Music history and literature, with options in traditional musicology and ethnomusicology
- Composition, with options in acoustic and electroacoustic specialization

All Ph.D. students are encouraged to find opportunities to teach and lecture in their specializations; and with the assistance of their principal professors, to prepare papers, workshops, and clinics for presentation at professional conferences, in the public schools, and at colleges and universities. Students also are encouraged to publish their research in appropriate journals. Minimum requirements for the M.M. and Ph.D. degrees are given in the General Information section of this catalog. The week before classes begin, students must take placement examinations in music history and in music theory. Students wanting to study privately in a performance studio must be auditioned and accepted by the appropriate area faculty. Voice students must demonstrate appropriate skills in language and diction. All deficiencies must be remedied.

For more information, please see the program pages below and our website: <http://www.arts.ufl.edu/welcome/music>.

Nuclear and Radiological Engineering Department

Chair: D. Hintenlang

Graduate Coordinator: W. Bolch

Complete faculty listing: [Follow this link.](#)

The Department offers the degrees of Master of Science, Master of Engineering, and Doctor of Philosophy in nuclear engineering sciences with emphases in nuclear power engineering, medical physics, and health physics. Complete descriptions of the minimum requirements for these degrees are provided in the *General Information* section of this catalog.

The medical physics and health physics options are offered through interdepartmental programs in cooperation with the College of Medicine (see the *Health Physics and Medical Physics* description under *Interdisciplinary Graduate Studies*).

Combined Program — The Department also offers a B.S.N.E./M.S. degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students may begin their master's program while seniors counting 12 hours of specified nuclear engineering sciences graduate courses for both the bachelor's and master's degree requirements. Seniors admitted to the combined program are eligible for teaching and research assistantships. Program admission requirements are (1) satisfaction of Graduate School admission requirements for a master's degree, (2) an upper-division (undergraduate) GPA of at least 3.6, and (3) completion of specified bachelor's degree requirements.

The graduate program has two major programs, Nuclear Engineering and Medical Physics. Specific areas of research and study in Nuclear Engineering include advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security. The Medical Physics program is a CAMPEP accredited program designed to meet the professional requirements for a career in clinical service or research and development. Areas of Medical Physics study and research include diagnostic medical imaging, radiation therapy, nuclear medicine imaging, and radiation dosimetry.

The requirement for admission to the graduate program in nuclear engineering sciences is a bachelor's degree in an approved program in engineering or in the sciences. Students applying to the Medical Physics program should have completed the equivalent of at least a minor in physics. If the student's background is considered deficient for the planned course of study, an articulation program of background courses will be required.

Depending on professional objectives, the student may select a non-thesis option for the MS degree and substitute 8 credits of graduate-level course work, of which at least 6 credits are in nuclear engineering sciences, including a 4-credit (minimum) special project, [ENU 6936](#). Completion of 32 credits will meet the minimum requirements for the non-thesis MS degree.

Normally, the requirements for a master's degree can be completed in 12 months. Students in the medical physics option usually take 21 to 24 months to complete the master's degree, which requires 40-42 credit hours. For a master's degree in health physics, a student must complete 42 hours of credit. If articulation work is required, it may take longer, depending upon the extent of the student's deficiency.

Occupational Therapy Department

Chair: W. C. Mann.

Graduate Coordinator: C. A. Velozo, J.J. Foss.

Complete faculty listing by department: [Follow this link.](#)

The Department of Occupational Therapy offers graduate programs in occupational therapy leading to the Master of Health Science (M.H.S.) degree (on-campus nonthesis and thesis options and distance learning nonthesis option) and the entry-level Master of Occupational Therapy (M.O.T.) degree. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

Master of Health Science: This program is designed for students who have earned an undergraduate degree in Occupational therapy. The thesis option requires four semesters of course work and a formal research thesis, while the nonthesis option requires three semesters of course work and a research project. The program emphasizes research and advanced theories related to occupational therapy practice. Preparation for teaching, administrative, and other occupational therapy roles is supplemented through elective courses. A coherent series of elective courses related to occupational therapy must be approved by the supervisory committee chairperson before the second semester of work.

In addition to the requirements of the Graduate School, admission requires the candidate to have completed a curriculum in occupational therapy accredited by the American Occupational Therapy Association or by the World Federation of Occupational Therapists.

The distance learning degree option for the Master of Health Science is specifically intended to meet the needs of the working professional. The nonthesis program is designed to improve the knowledge and skills of working occupational therapists for practice in a complex and challenging health care system. It provides preparation for new practice areas, leadership roles, and independent practice and is delivered through the Internet. In addition to the departmental requirements listed above, applicants to the distance learning program must have basic personal computer competency and access to a computer that meets minimal configuration requirements.

Additional information about the Master of Health Science is available at <http://www.hp.ufl.edu> or <http://gradschool.rgp.ufl.edu> or by telephone at (352)273-6817. For distance learning, see <http://otdlm.php.ufl.edu/> or call toll free (866)878-3297.

Master of Occupational Therapy: This entry-level degree program is designed for students who do not have an undergraduate degree in occupational therapy. The program provides students with a holistic perspective, including an understanding of the philosophical and theoretical bases for practice in the current health care environment. The M.O.T. program provides a strong background in theory, assessment, and therapeutic interventions. Before their professional preparation in the M.O.T. program, students receive a liberal education in their pre-professional baccalaureate studies, including several courses specifically focused for students planning to enter the M.O.T. program. Students may enroll in courses in the Bachelor of Health Science degree program at the bachelor's level, or they may complete these courses on a postbaccalaureate level before starting the M.O.T. program. Students are only admitted into the M.O.T. program in summer term and graduate at the end of the fall term after 1.33 years of full-time study (5 semesters) and 58 credits.

Admission requirements include completion of an undergraduate degree and the prerequisite course work. Three letters of reference and a letter of application are required by the Department. Additional information is available at <http://www.php.ufl.edu/ot/> and <http://gradschool.rgp.ufl.edu> or by telephone (352)273-6817.

This program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association. The address for ACOTE is 4720 Montgomery Lane, Box 31220, Bethesda, MD, 20814-1220. The phone number is (301) 652-2632. Graduates of the program are eligible to sit for the national certification exam administered by the National Board for Certification in Occupational Therapy (NBCOT). The website address of NBCOT is www.nbcot.org.

Pharmaceutical Outcomes and Policy Department

Chair: R. Segal

Graduate Coordinator: A. Winterstein

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree. Complete descriptions of the requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog.

Pharmaceutics Department

Chair: H. C. Derendorf.

Graduate Coordinator: A. Palmieri III.

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmaceutics offers the Doctor of Philosophy in pharmaceutical sciences. Pharmaceutics is the scientific endeavor concerned with the design, formulation, evaluation, and use of drug delivery systems. A foundation in physical chemistry, chemistry, mathematics, and in the life sciences, is necessary. Its domain extends from studies of the physiochemical properties of drugs and related molecules to investigations of the mechanisms of physiological processes affecting drug delivery and therapeutic effectiveness. The Department's general focus involves studying the design and evaluation of traditional and novel dosage forms for delivering drug molecules and macromolecules. The design involves physical chemical studies and development of analytical techniques involving spectroscopy and chromatography. Evaluation includes development of sensitive analytical techniques for the drug in biological fluids and subsequent biopharmaceutical and clinical pharmacokinetic studies.

Pharmacodynamics Department

Chair: M. Keller-Wood.

Interim Graduate Coordinator: Joanna Peris

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see *Interdisciplinary Graduate Studies* in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

Pharmacotherapy and Translational Research Department

For a full list of faculty, please [follow this link](#).

Description to be added

Philosophy Department

Chair: G. Witmer.

Graduate Coordinator: C. Liu.

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Arts and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog.

Admission to the program requires a bachelor's degree in philosophy or sufficient course work in philosophy, as determined by the department. Applicants are evaluated on the basis of academic achievement, GRE scores, three letters of recommendation, a statement of purpose, and a sample essay in philosophy. Students may be admitted as for a terminal M.A. degree or for the Ph.D. Program.

The M.A. degree requires two years (36 hours) of course work. All graduate students take foundational courses in their first four semesters: the graduate Proseminar (PHI [PHI 5935](#)), Graduate Logic (PHI [5135](#)), a course in Ancient Philosophy (PHP [5005](#) or PHP [5015](#)), a course in Modern Philosophy (PHI [5405](#) or PHI [5406](#)), and either Foundations of Analytic Philosophy (PHP [5785](#)) or Epistemology (PHI [5365](#)).

The Ph.D. requires 90 credit hours, which may include 36 used as credit for the M.A. In addition to the foundational courses required for the M.A., the Ph.D. requires Ethical Theory (PHI [5665](#)) and both of PHP [5785](#) and PHI [5365](#). It also requires six courses at the advanced 6000-level, 3 proposal research hours and 12 doctoral research hours, and of course the successful completion and defense of a dissertation.

Further information about the department's programs and admissions can be obtained on the department's website web.phil.ufl.edu or by contacting the Graduate Coordinator, 330 Griffin-Floyd Hall, (352)392-2084 or gradcoord@phil.ufl.edu.

Physics Department

[College of Liberal Arts and Sciences](#)

Chair: Kevin Ingersent

Graduate Coordinator: Guido Mueller

Complete faculty listings: [Follow this link.](#)

The Department of Physics offers the Master of Science (thesis or nonthesis) and the Doctor of Philosophy degrees. The nonthesis Master of Science in Teaching is also offered. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Areas of specialization for graduate research include astrophysics and cosmology, atomic and molecular physics, biological physics, chemical physics, condensed matter physics (theory and experiment), nuclear physics, particle physics (theory and experiment), statistical physics, and low temperature physics.

Special interdisciplinary research programs include the Institute for Fundamental Theory (carried out jointly with the Department of Mathematics), the Institute for Theoretical and Computational Studies in Molecular and Materials Science (carried out jointly with the Department of Chemistry), the Institute of High Energy and Particle Astrophysics, and Microfabritech (jointly with the College of Engineering). A curriculum is offered by the Center for Chemical Physics for students interested in research related to chemistry or chemical engineering. The Center for Condensed Matter Sciences provides opportunities for investigations in a diverse range of subjects and fields, including the Microkelvin Research Laboratory. The University of Florida operates the National High Magnetic Field Laboratory jointly with Florida State University and Los Alamos National Laboratory.

The core curriculum is designed to provide a thorough foundation for all physics graduate students. It consists of PHY [6246](#), PHY [6346](#), PHY [6347](#), PHY [6536](#), PHY [6645](#), and PHY [6646](#). Doctoral students must achieve a 3.30 GPA in the core curriculum. All students must pass a preliminary examination at the undergraduate level. All degree candidates are required, as part of their graduate education, to participate continuously in the research and/or teaching programs of the Department.

For more information, please see the program page below, and visit our website: <http://www.phys.ufl.edu>.

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Complete faculty listing by department: [Follow this link.](#)

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Plant Pathology Department

Chair: R. Loria

Graduate Coordinators: J. Jones

Complete faculty listing by department: [Follow this link](#).

The Department of Plant Pathology offers graduate studies leading to the Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees. The Department also participates in the Doctor of Plant Medicine interdisciplinary professional degree.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Political Science Department

Chair: Ido Oren

Graduate Coordinator: Daniel Smith

Complete faculty listing: [Follow this link](#).

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) or follow the hyperlinks below to more information about the specific programs offered.

Psychology Department

[College of Liberal Arts and Sciences](#)

Chair: Lise Abrams

Graduate Coordinator: Julia A. Graber

Complete faculty listing by department: [Follow this link](#).

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

For more information, please see the program page below and our website: <http://www.psych.ufl.edu>.

Religion Department

Chair: Manuel A. Vazquez.

Graduate Coordinator: David G. Hackett

Complete faculty listing by department: [Follow this link](#).

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the *General Information* section of this catalog.

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://religion.ufl.edu/graduate-studies/> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work

- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 15 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://religion.ufl.edu/graduate-studies/>.

School of Architecture

Director: M. Gold.

Graduate Coordinator: N. M. Clark.

Complete faculty listing [Follow this link](#).

Doctor of Philosophy: The college offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization in this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, Box 115701.

Master of Architecture: The School of Architecture offers graduate work leading to the first professional degree, Master of Architecture. During graduate studies, each student has the opportunity to focus on one or more areas, including design, history and theory, urban design, preservation, structures, and technology. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design. The student's overall college experience, both undergraduate and graduate programs, is intended to be a complete unit of professional education leading to practice in architecture or related fields.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Florida School of Architecture offers the following NAAB-accredited degree programs:

Master of Architecture (pre-professional degree + 52 graduate credits) Master of Architecture (professional degree + 30 graduate credits) Master of Architecture (non-pre-professional degree

+ 54 undergraduate credits + 52 graduate credits)

Master of Architecture (pre-professional degree + 52 graduate credits) : For those students who have a 4-year baccalaureate degree from an accredited architectural program, 2 years in residence (52 credits) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. Course sequences in history and theory, technology, structures, and practice must also be completed.

Master of Architecture (professional degree + 30 graduate credits): For students who have a baccalaureate degree with an architecture or related major (interior design, landscape architecture) and who have completed 4 or 6 architecture or design studies courses, three years of residence (83 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. (Undergraduate courses 3000 and 4000 level in the major do not count toward the minimum requirements for the graduate degree.) Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits): For students with a baccalaureate degree in a nonrelated academic area and have completed fewer than 4 design studies courses, 4 years of residence (112 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4071](#), [ARC 4072](#), [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or project. Undergraduate courses 3000 and 4000 level in the major do not count toward the 52-hour minimum requirements for the graduate degree. Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Accredited 5-year professional base: For students with a baccalaureate degree in architecture from an accredited 5-year professional degree program, a 1-year degree program is available. In these cases, a specialized curriculum is developed that compliments the needs of the applicant. Minimum registration is 30 credits; however, the minimum may increase if transcript reviews show that further course work is needed to meet registration and curriculum requirements. [ARC 6356](#) is a prerequisite for the thesis or master's project.

Most states require individuals intending to become architects to hold an accredited degree. The National Architectural Accrediting Board acknowledges two types of degrees: the Bachelor of Architecture (minimum 5 five years of study); and the Master of Architecture (minimum 3 years of study after an unrelated bachelor's degree, or 2 years after a related pre-professional bachelor's degree). These professional degrees educate those who aspire to registration and licensure to practice as architects.

Student work: The College may retain student work for the purpose of record, exhibition, or instruction.

Master of Science in Architectural Studies: The M.S.A.S. is a nonprofessional degree for advanced investigations in specialized areas of architectural history, architectural pedagogy, theory, technology, design, preservation, or practice. Students with a bachelor's degree in any discipline from an accredited university are eligible to apply to this program; the proposed area of focus should be precisely defined in the application. This is a 3- to 4-semester program (32 hours minimum) that includes a thesis. (No more than 6 hours of [ARC 6971](#) may be counted in the minimum credit hours for the degree.) Interdisciplinary study is encouraged. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design.

The School sponsors special curricula in architecture to enhance the academic program. *Preservation Institute: Caribbean, Preservation Institute: Nantucket, and Viceria Institute of Architecture (Italy)* accepts students from the University of Florida, and also from academic circles throughout the United States and the world for year-round study. Any student in a graduate architecture program at the University of Florida may apply for one or more of these programs.

Requirements for the M.Arch., M.S.A.S., and Ph.D. degrees are described in the *General Information* section of this catalog.

The School also participates in a program granting an Interdisciplinary Concentration and Certificate in Sustainable Architecture. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Applications: All applications for fall term graduate admission (including official transcripts, GRE scores, and TOEFL scores, if necessary) must be received by the Office of the Registrar by January 15. In addition to satisfying University requirements for admission, applicants are required to submit to the Graduate Program Assistant, School of Architecture, 231 ARCH, Box 115702, the following: a portfolio of their creative work; a scholarly statement of intent and objectives; and three letters of recommendation. This material must be received by January 15 to be considered for admission in the next fall term. Students may apply after the January 15 deadline but will only be considered if spaces become available. (Updates of portfolios are accepted after January 15; however, applications will not be considered until they are complete.)

The School reserves the right to retain student work for purposes of record, exhibition, or instruction. Field trips are required of all students; students should plan to have adequate funds available. It may be necessary to assess studio fees to defray costs of base maps and other generally used materials.

School of Art and Art History

[College of the Arts](#)

Director: Richard C. Heipp

Graduate Coordinator: Patrick Grigsby

Complete faculty listing: [Follow this link.](#)

The School of Art and Art History offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. The school also offers Master of Arts degrees in art education, art history, and museology (museum studies) and the Doctor of Philosophy degree in art history. Requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog, and information about each of these graduate programs can be found at the links below.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/art>

School of Forest Resources and Conservation

[College of Agricultural and Life Sciences](#)

Director: T. L. White.

Graduate Coordinator: T.V. Stein

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Joint program: Students may simultaneously earn a juris doctorate from the College of Law and a graduate degree (M.F.R.C., M.S., or Ph.D.) in Forest Resources and Conservation.

Combined programs: The School offers a combined bachelor's/master's degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings of 1 semester. Ph.D. students may pursue a co-major with the Department of Statistics (see below).

Concentration in geomatics: Students completing 15 or more credits with an SUR designation, as part of an SFRC graduate degree, may earn the concentration in geomatics. Geomatics is the collection, analysis, and management of spatial information and includes such fields as surveying, mapping, land tenure, cadastral systems, geographic information systems, and remote sensing.

Concentration in ecological restoration: This concentration is available to M.S. non-thesis students. To earn this concentration a student must complete Ecosystem Restoration Principles and Practice and four of the following courses: Ecological Distribution and Management of Invasive Plants, Ecology and Restoration of Invaded Ecosystems, Ecology and Restoration of Longleaf Pine Ecosystem, Watershed Restoration and Management, Natural Resource Policy and Administration, or Agroforestry in the Southeastern US. Ecological restoration seeks to return ecosystems to a close approximation of condition before a disturbance.

Statistics co-major: Ph.D. students with the School may elect the co-major offered jointly with the Department of Statistics. Students focusing on forest genetics, tree improvement, and other statistics-intensive aspects of natural resource management are potential candidates for this option.

Certificates: The School administers the Graduate Certificate in Agroforestry, and SFRC students regularly earn certificates in Geographic Information Systems and in Environmental Education and Communication. Requirements are described under *Interdisciplinary Graduate Certificates and Concentrations* in this catalog.

For additional information, please visit the School's web page at <http://sfrc.ufl.edu>.

For details on what terms courses will be offered, please visit <http://sfrc.ufl.edu/gradcourses.html>.

School of Natural Resources and Environment

Graduate coordinator: T. Frazer

Complete faculty listing by department: [Follow this link.](#)

The University of Florida School of Natural Resources and Environment offers interdisciplinary coursework in the basic and applied science of ecology, the related social sciences, and sustainability, leading to M.S. and Ph.D. degrees. Choose from about 450 courses, 280 faculty advisors, and 44 participating departments. Research areas of ecology graduate students range across natural resource ecology, environmental policy and management, and sustainable development.

Environmental problems are fundamentally human problems and should be understood in terms of human motivations and actions in a biophysical context. Their solution requires holistic thinking about dynamic ecological systems and the social, economic, and political forces driving human action. To this end, the goal of the Interdisciplinary Ecology graduate program is to provide advanced training in ecosystems thinking and the main theories and methodologies of the biophysical and social sciences to foster integrative approaches to complex real-world problems. Interdisciplinary Ecology students are intensely interested in the sustainability problem, and they welcome the challenge of addressing it through more than one traditional discipline.

School of Teaching and Learning

Director: E. Bondy.

Graduate Coordinator: S. G. Terzian.

Complete faculty listing by department: [Follow this link.](#)

The School of Teaching and Learning (<http://education.ufl.edu/school>) offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis or project in lieu of thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees in curriculum and instruction. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 10 areas of specialization: curriculum, teaching, and teacher education; educational technology; elementary education; mathematics education; language and literacy education (including children's literature, English education, ESOL/bilingual education, language arts, and reading education); science and environmental education; social foundations of education; social studies education; and teacher leadership for school improvement.

The nationally recognized Proteach graduate program leads to the M.Ed. degree and state certification as a classroom teacher. Unified Elementary ProTeach admits undergraduates who complete the five-year program with a master's degree. Secondary Proteach (English, Science, Social Studies) prepares teachers who have completed a bachelor's degree in the discipline they will teach. Prospective elementary teachers who already hold a bachelor's degree in a non-education field may want to consider the School's SITE program (Site-based Implementation of Teacher Education), which leads to the M.Ed. degree in curriculum and instruction. Students may apply to the state for alternative certification.

Beyond the Graduate School and College of Education admission requirements, students should have academic preparation and teaching experience appropriate to the program being pursued. Students having deficiencies in their preparation will be required to follow a program to remove such deficiencies. A limited amount of support is available for graduate studies through fellowships, scholarships, research assistantships, and teaching assistantships.

School of Theatre and Dance

Director: J. Dickey

Graduate Performance Program Coordinator: Ralf Remshardt

Graduate Design Program Coordinator: S. Kaye

Complete faculty listing by department: [Follow this link.](#)

The graduate program offered by the School of Theatre and Dance leads to the degree of Master of Fine Arts in Theatre. Minimum requirements for this degree are given in the *General Information* section of this catalog.

The M.F.A. degree prepares students for professional entry in acting, production, or teaching. Placement in the M.F.A. program is determined by audition/portfolio review, academic credentials, and personal interview. Candidates for admission should have adequate training in theatre. Deficiencies may be corrected before beginning graduate study.

The program emphasizes the study and practice of theatre as an art and discipline. Students of acting and design study concepts of theatre together while working in their areas of specialization. Focus is on the collaboration and synthesis of theatre artistry. Each incoming class is composed of approximately 12 to 18 students in acting and all design areas.

The student's artistic and academic progress will be reviewed at the end of each semester. The *School of Theatre Handbook* gives details on the form and focus of each review. This information is online at <http://www.arts.ufl.edu/theatreanddance/pages/whatyouneedtoknow/downloads/downloads.asp>.

During the final year of study, each student must successfully complete the comprehensive examination and oral defense. The project in lieu of thesis includes research, analysis, rehearsal process, and evaluation. Development and execution of the project includes public performance (acting or design). The written document and oral defense of the project which follow must demonstrate the ability to communicate the creative process.

Graduate acting students audition for all departmental productions.

Sociology and Criminology & Law Department

Chair: Barbara Zsembik

Graduate Coordinator: Barbara Zsembik

Complete faculty listing by department: [Follow this link.](#)

The Department of Sociology and Criminology & Law offers several programs of graduate study leading to the Ph.D. in Sociology, the Ph.D. in Criminology, Law and Society, the MA in Sociology, the MA in Criminology, Law and Society, and a Joint MA in Criminology/JD degree. The department also partners with the School of Natural Resources and Environment Department to offer the Ph.D. or MA in Interdisciplinary Ecology. Advanced undergraduate majors may complete a combined BA/MA degree in Sociology or a combined BA/MA degree in Criminology, Law and Society.

Soil and Water Science Department

Chair: K. Ramesh Reddy

Graduate Coordinator: Max Teplitski

Complete faculty listing by department: [Follow this link.](#)

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The Department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog

Soil and Water are vital resources in urban, agricultural, and natural ecosystems. The Soil and Water Science Department (SWSD) provides highly visible leadership in teaching, research, and extension/outreach programs as related to improving the productivity of agriculture with environmentally sound management practices, improving water quality, and protection and conservation of natural resources. Our department is one of the few in the nation that offers a comprehensive research and educational programs (molecular to landscape level) involving terrestrial, wetlands and aquatic ecosystems of the landscape. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place-bound students. Our graduates and postdoctoral fellows are well placed at universities, state and federal agencies, and private industry.

The SWSD programs are designed to meet the changing needs of our clientele at state, national and international levels. To meet new challenges and explore new opportunities, the SWSD's research, teaching, and extension programs are focused in five areas, with broader implication to water quality, carbon sequestration, greenhouse gases, and climate change:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

The Department offers graduate level certificates in Biodegradation and Remediation, Sustainable Land Resource and Nutrient Management, Soil Ecosystem Services, and Wetland and Water Resource Management for both on-campus students and via distance education for place bound students (<http://soils.ifas.ufl.edu/academics/degree-certificates.shtml>).

An additional option offered by the Department is a combined bachelor's/master's degree program that permits a B.S in Soil and Water Science or Interdisciplinary Studies – Environmental Management in Agriculture and Natural Resources and M.S. Degree to be completed in five years. Contact the graduate coordinator for more information.

For more information, please see the program page below and our website: <http://soils.ifas.ufl.edu>.

Spanish and Portuguese Studies Department

Chair: G. Lord

Graduate Coordinator: L. Álvarez Castro

Complete faculty listing by department: [Follow this link.](#)

The Department of Spanish and Portuguese Studies offers a Master of Arts degree (M.A.) in Spanish (thesis and non-thesis options) and a Doctor of Philosophy degree (Ph.D.) in Romance Languages and Literatures, with a concentration in Spanish. Descriptions of the minimum requirements for both degrees are provided in the General Information section of this catalog. For specific information about the program, please visit the graduate section of the departmental webpage:

<http://www.spanishandportuguese.ufl.edu/spanish/graduate.html>

Candidates for graduate degrees (both M.A. and Ph.D.) in Spanish can choose between two specializations—literature/culture or linguistics. In conjunction with their master's or doctoral work, students may also earn a Certificate in Latin American Studies. Though a graduate degree is not offered in Portuguese, extensive course offerings at the graduate level permit students to develop a strong specialization in Portuguese language and Luso-Brazilian literature, film and culture.

The main prerequisite for admission to the M.A. program is an undergraduate major in Spanish, ideally including advanced courses in the proposed area of specialization. Applicants for the Ph.D. should hold an M.A. or equivalent degree in Spanish. At the discretion of the Graduate Studies Committee, candidates from related fields of study (History, Sociology...) may be offered a conditional admission into the Ph.D. program pending the passing of the M.A. Comprehensive Examination within the first year of study.

All M.A. and Ph.D. students in Spanish who are appointed as teaching assistants must take Romance Language Teaching Methods (FOL/ [FOL 6943](#)). Besides, all M.A. and Ph.D. students specializing in literature and culture must take Introduction to Graduate Study and Research ([SPW 6806](#)). Other requirements vary with degree and specialization. For details, consult the graduate section of the departmental webpage (see above).

The Department is able to offer most students a teaching assistantship that provides a maintenance stipend and includes a tuition waiver. Contingent on positive performance in teaching and graduate work, M.A. students are guaranteed four semesters of support, and Ph.D. students are guaranteed eight semesters of support beyond the M.A. In addition, there are several fellowships, supplements and stipends for which students may apply, and summer teaching may be available.

Prospective students are encouraged to review the departmental webpage in order to familiarize themselves with the program and the application process. Only those applications including all required materials and submitted by the advertised deadlines will be considered. For any questions about the program or how to apply, please contact the graduate coordinator:

lacastro@ufl.edu.

Highly qualified UF undergraduate students majoring in Spanish may apply for a combined B.A./M.A. program in Spanish that allows up to 12 graduate credits to be counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details.

Special Education, School Psychology and Early Childhood Studies Department

Director: Jean Crockett

Complete faculty listing by department: [Follow this link](#).

The School of Special Education, School Psychology, and Early Childhood Studies offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 3 areas of specialization: Special Education; School Psychology; and Early Childhood Studies. Programs are accredited by the Florida Department of Education and approved by the National Council for Accreditation of Teacher Education (NCATE). The School Psychology program is approved by the NCATE and the National Association of School Psychologists (NASP). The Ph.D. program in School Psychology is accredited by the American Psychological Association (APA).

Speech, Language and Hearing Sciences Department

Chair: Scott K. Griffiths

Graduate Coordinators: Kenneth J. Logan and Alice Holmes

Complete faculty listing by department: [Follow this link](#).

Graduate programs in the Department lead to Master of Arts and Doctor of Philosophy degrees in Communication Sciences and Disorders and to the Doctor of Audiology degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate specializations and programs in speech-language pathology and audiology are accredited by the Council on Academic Accreditation/American Speech-Language-Hearing Association.

The **Doctor of Audiology (Au.D.) Program** in the Department of Speech, Language, and Hearing Sciences is a four-year graduate degree. Graduate students take course work in theoretical and applied audiologic sciences and research. There are no specific undergraduate courses required for admission to the Au.D. degree program, although applicants with a strong science background are encouraged to apply. Graduates of this program are eligible for the Certificate of Clinical Competence in Audiology (CCC-A) administered by the American Speech-Language-Hearing Association, Board Certification in Audiology administered by the American Academy of Audiology, and for state licensure in audiology. For more information, contact Alice Holmes, Ph.D. (aholmes@ufl.edu).

The **Ph.D. Program in Communication Sciences and Disorders** provides a state-of-the-art education in research practices in speech-language pathology and audiology with a strong interdisciplinary focus. Our goal is to prepare the next generation of researchers who are specialized in basic and/or applied science that relates to a range of speech, language, hearing, and swallowing functions. The program is designed to develop researchers who are skilled at independently designing and conducting original research that adds to the body of knowledge in the field. Students are individually mentored and pursue individually designed programs of study tailored to their interests and needs, which incorporate training in appropriate adjunct fields such as engineering, dentistry, gerontology, linguistics, psychology, medicine and special education. For more information, contact Lori Altmann, Ph.D. (laltmann@ufl.edu).

The **Master of Arts (M.A.) Program** offers comprehensive academic training and clinical experience for students who are interested in a career in speech-language pathology. The five-semester program culminates in the completion of either a clinical externship or a Master's thesis, and it provides graduates with a solid foundation for obtaining employment in a variety of work settings. Students have the opportunity to complete clinical practica at sites within the University of Florida's Health Science Center and at other medical, rehabilitative, and educational facilities on or near the campus. These sites allow students to gain experience with providing clinical services to a range of patient populations.

Applicants to the Master's program must demonstrate successful completion of pre-requisite coursework in both normal bases of communication and introductory concepts in communication disorders. Additional information about these pre-requisites is available on the Department website. Graduates of the program are eligible for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association as well as state licensure in speech-language pathology. For more information, contact Kenneth J. Logan, Ph.D. (klogan@ufl.edu).

The Department of Speech, Language, and Hearing Sciences is committed to providing its students with a high-quality educational experience that will prepare them for rewarding employment in the areas of speech-language pathology and audiology, as well as an eagerness for life-long learning and professional development. The department strives to enroll a diverse group of students who possess both high ethical standards and strong academic skills. The application deadlines are January 15 for fall admission to the Ph.D. program, and February 1 for fall admission to the Master's and Au.D. programs.

For more information, please see the program pages below and our website: <http://slhs.php.ufl.edu>.

Statistics Department

Chair: M. J. Daniels

Graduate Coordinator: J. P. Hobert

Complete faculty listing: [Follow this link](#).

Graduate programs are available leading to Master of Science in Statistics, Master of Statistics, and Doctor of Philosophy degrees. Minimum requirements for these degrees are described in the *General Information* section of this catalog.

Both master's programs usually require 2 years of course work including material covered in [STA 6208](#), 6208, [STA 6326](#), [STA 6327](#), [STA 6246](#), and [STA 6329](#). In addition to earning a "Ph.D. pass" on the first-year evaluation, requirements for the Ph.D. degree include STA 6466, 6467, [STA 7249](#), and [STA 7346](#).

Interdisciplinary programs: The Department offers a co-major program in conjunction with the Fisher School of Accounting leading to the Doctor of Philosophy degree in statistics and business administration accounting. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Departments of Mathematics; Industrial and Systems Engineering; and Finance, Insurance, and Real Estate. For information on these programs, consult the departmental graduate coordinator.

Combined program: The Department offers a bachelor's/master's degree program. Contact the graduate coordinator for information.

Taxation Department

Chair and Graduate Coordinator: M. K. Friel.

Complete faculty listing by department: [Follow this link.](#)

Graduate study in the field of taxation leading to the Master of Laws in Taxation degree or to the Master of Laws in International Tax degree is available in the College of Law.

Applicants for admission to the Graduate School for these degrees must hold a law degree from an accredited law school or in the case of international students, from a recognized foreign university but need not submit scores on the Graduate Record Examination. For further information concerning admission consult the *Graduate Tax Program Catalog*, or write the Tax Office, 320 Holland Law Center.

Tourism, Recreation, and Sport Management Department

[College of Health and Human Performance](#)

Chair: Michael Sagas.

Graduate Coordinator: Stephen Holland.

Complete faculty listing: [Follow this link.](#)

The degree Master of Science is offered by the Department of Tourism, Recreation, and Sport Management with programs in sport management and in recreation, parks, and tourism. Both programs offer thesis and non-thesis formats. The Department participates in the Ph.D. program in Health and Human Performance. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Master's program provides advanced preparation of tourism, recreation, and parks and sport management professionals for positions of leadership in planning, developing, administering and marketing of programs in a variety of employment settings; public and private. Concentrations of study may be developed in a number of areas, such as:

- Natural resource recreation management
- Tourism and commercial recreation
- Campus recreation
- Recreation administration and supervision
- Sport management

The Doctoral program is offered through the College of Health and Human Performance with concentrations in tourism; natural resource recreation and sport management. These interdisciplinary specializations blend course work and research. The curriculum is individualized, and applicants with degrees from unrelated fields can be accepted into the program. However, their previous work will be evaluated and their programs planned according to their individual needs, interests, and career objectives.

Combined program: The Department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of approximately one semester. Up to 12 approved graduate credit hours can be utilized toward both degrees.

MS/MSM Concurrent Degree Program: This joint degree program is offered through the College of Business Administration (Master of Science in Business Management [MSM]) and the College of Health and Human Performance's, Department of Tourism, Recreation and Sport Management (Master of Science in Sport Management [MS]). Applicants must apply to both programs and be admitted to both to participate. The MS/MSM is a non-thesis degree. The MS/MSM is designed for students who seek a graduate business degree and who lack the work experience necessary for admission to the MBA program. The MS/MSM curriculum is similar to the first year of the MBA program, giving students a good foundation in business principles. Concurrent degree students can share up to 9 credit hours of the same coursework towards both degree programs. They do not have to graduate during the same semester. Students admitted into the concurrent program must work closely with both departments to verify all requirements are being met during their course of study.

MS./J.D. joint program: This 98-credit-hour joint degree program culminates in the Master of Science and the Juris Doctor degrees. Applicants must meet the entrance requirements for the Department of Tourism, Recreation, and Sport Management and the College of Law. Admission to the second degree program is required no later than the end of the fourth consecutive semester after beginning one of the degree programs. The student's supervisory committee comprises faculty members from both the Department of Tourism, Recreation, and Sport Management and the College of Law. Students admitted into the joint program are permitted to share up to 12 credit hours of the same coursework towards both degree programs. Students must graduate during the same semester from both programs.

Urban and Regional Planning Department

Director of School of Landscape Architecture and Planning: Kristin Larsen

Chair: Joseli Macedo

Graduate Coordinator: Stanley Latimer

Graduate Coordinator of Online Degree program: Ferdinand Lewis

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy: The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in Design, Construction, and Planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Arts in Urban and Regional Planning: The Department of Urban and Regional Planning offers graduate work leading to the degree of Master of Arts in Urban and Regional Planning (M.A.U.R.P.). Students are encouraged to enter the program in the fall semester. The program is usually completed in two academic years. The student entering with an undergraduate degree and no graduate study must complete 52 hours of credit for the M.A.U.R.P. degree. Students who have a master's degree in a related field may transfer up to 18 graduate semester hours toward the 52 hour requirement. Such a transfer of credit requires the approval of the Department. The Department encourages students with any undergraduate degree who are interested in the field of planning to apply for admission.

Complete descriptions of the requirements for the M.A.U.R.P. and Ph.D. degrees are provided in the *General Information* section of this catalog.

The urban and regional planning curriculum is designed to provide a set of core studies and contextual projects which prepare the graduate for the practice of planning in public or private agencies at both national and international levels. The core studies include history and theory of planning; planning methods; growth management at local, regional, and state levels; and related studies in community and regional social, natural, and economic systems. Contextual projects include, among many subject areas, urban design, transportation, regional planning, community redevelopment and preservation, housing, real estate, and economic development. The program emphasizes planning, policies, and design for the physical environment. Current specializations include growth management and transportation, urban design, housing, community and economic development, information technologies for planning, and environmental planning. Students are also encouraged to take advantage of the extensive faculty, course offerings, and other resources available in the College of Design, Construction, and Planning and throughout the University. The Department has two research centers: The Geo-facilities Planning and Information Center (GeoPlan), the Center for Building Better Communities (CBBC), and the Center for Health and the Built Environment (CHBE).

The curriculum is supported by an extensive GIS laboratory, and a visual aid library. Variation from the core studies may be approved by the Department if the student can demonstrate education and experience to the faculty that would support such an alternative. The M.A.U.R.P. degree is accredited by the Planning Accreditation Board, a joint undertaking of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning, for having achieved the highest applicable standards for graduate education in the field of planning. Graduates of the Department are prepared to practice urban and regional planning.

The Department of Urban and Regional Planning and the College of Law offer a joint degree program (see *Requirements for Master's Degrees* in the *General Information* section of this catalog). Areas of concentration with other programs in the Graduate School may be developed to meet the individual needs of students. In addition to course work the student is required to complete an internship with a public or private planning office and the student must complete a thesis.

The Department reserves the right to retain student work for purposes of record, exhibition, or instruction.

Wildlife Ecology and Conservation Department

[College of Agricultural and Life Sciences](#)

Chair: Eric C. Hellgren

Graduate Coordinator: Kathryn E. Sieving

Complete faculty listing by department: [Follow this link.](#)

The Department of Wildlife Ecology and Conservation offers Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees in wildlife ecology and conservation. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Program emphases include wildlife biology, ecology, and management; landscape ecology and restoration; human dimensions; tropical and international conservation; and conservation education. Graduate students should have appropriate undergraduate training in the biological, social, and physical sciences including physics, chemistry, and mathematics. Students with inadequate backgrounds may be required to take (without credit at the graduate level) remedial undergraduate courses pertinent to their fields of interest.

For more information, please see our website: <http://www.wec.ufl.edu>.

Women's Studies Department

Director: Bonnie Moradi

Graduate Coordinator: Kendal Broad

Complete faculty listing by department: [Follow this link.](#)

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as two certificates. These options give students the opportunity to take advantage of scholarship in this dynamic field, and to become acquainted with different research perspectives and methodologies. Students become well grounded in theories of gender in cultural systems and in ways that gender intersects with other categories of difference such as race, ethnicity, religion, class, sexuality, nation, physical and mental ability, age, and economic and civil status. Faculty and students employ feminist and other appropriate theoretical approaches and methodologies.

The Center offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring. The Center in Ustler Hall houses archives, a small library, offices, and meeting space.

For more information about our program, please see the program page below or our website: <http://web.wst.ufl.edu>.

Departments and Programs

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

Other

Agricultural and Biological Engineering (CALS)

College

- [College of Agricultural and Life Sciences](#)
- [College of Engineering](#)

Department/School

[Agricultural and Biological Engineering Department](#)

Agricultural and Biological Engineering Program

The degrees of Master of Science, Master of Engineering, and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Additional information can also be found on the graduate studies pages on the department website at www.abec.ufl.edu.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Degrees Offered with a Major in Agricultural and Biological Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Agricultural and Biological Engineering Courses

- ABE 5015: Empirical Models of Crop Growth and Yield Response
- ABE 5038: Recent Developments and Applications in Biosensors
- ABE 5152: Electro-Hydraulic Circuits and Controls
- ABE 5332: Advanced Agricultural Structures
- ABE 5442: Advanced Agricultural Process Engineering
- ABE 5643C: Biological Systems Modeling
- ABE 5646: Biological and Agricultural Systems Simulation
- ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials
- ABE 5663: Advanced Applied Microbial Biotechnology
- ABE 5707C: Agricultural Waste Management
- ABE 5815C: Food and Bioprocess Engineering Design
- ABE 6005: Applied Control for Automation and Robots
- ABE 6031: Instrumentation in Agricultural Engineering Research
- ABE 6035: Advanced Remote Sensing: Science and Sensors
- ABE 6037C: Remote Sensing in Hydrology
- ABE 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6265: Vadose Zone Modeling
- ABE 6266: Nanotechnology in Water Research
- ABE 6615: Advanced Heat and Mass Transfer in Biological Systems
- ABE 6644: Agricultural Decision Systems
- ABE 6816: Food and Bioprocess Sterilization
- ABE 6905: Individual Work in Agricultural and Biological Engineering
- ABE 6910: Supervised Research
- ABE 6931: Seminar
- ABE 6933: Special Topics in Agricultural and Biological Engineering
- ABE 6940: Supervised Teaching
- ABE 6971: Research for Master's Thesis
- ABE 6972: Research for Engineer's Thesis
- ABE 6974: Nonthesis Project
- ABE 6986: Applied Mathematics in Agricultural and Biological Engineering
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- AOM5334C: Agricultural Chemical Application Technology
- AOM5431: GIS and Remote Sensing in Agriculture and Natural Resources
- AOM5435: Advanced Precision Agriculture
- AOM6905: Individual Work in Agricultural Operations Management
- AOM6932: Special Topics in Agricultural Operations Management
- CWR 6536: Stochastic Subsurface Hydrology

- PKG 5003: Advanced Distribution and Transport Packaging
- PKG 5006: Advanced Packaging Principles
- PKG 5105: Advanced Consumer Products Packaging
- PKG 5206C: Advanced Package Decoration
- PKG 5256C: Advanced Analytical Packaging Methods
- PKG 6100: Advanced Computer Tools for Packaging
- PKG 6905: Individual Work in Packaging
- PKG 6932: Special Topics in Packaging Sciences

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agricultural Education and Communication Department

Chair: E. W. Osborne

Graduate Coordinator: B. E. Myers

Complete faculty listing by department: [Follow this link.](#)

The Department of Agricultural Education and Communication offers the degrees of Master of Science and Doctor of Philosophy. Graduate students who obtain a degree in Agricultural Education and Communication will focus their study in one of four areas of specialization. The areas of specialization are agricultural communication, agricultural education, extension education, and leadership development. These degree programs are individually tailored to meet the student's unique needs for professional development. The requirements for each degree are described in the [Graduate Degrees](#) section of the University of Florida Graduate Catalog. More information about our program can be found by following the link below.

Other

Agricultural Education and Communication

College

[College of Agricultural and Life Sciences](#)

Department/School

[Agricultural Education and Communication Department](#)

Agricultural Education and Communication Program

The Master of Science program is designed to prepare graduates for domestic and international teaching, research, extension, administrative and leadership positions in both the public and private sectors. Courses are taught in an agricultural and natural resources context and are broadly applicable in educational, business, government, and agency settings. The Master of Science program is delivered on-campus and online via the AEC e-Learning Institute (eLI). The Doctor of Philosophy degree program is primarily designed to prepare graduates for academic positions in teaching, research, and extension within the realm of Agricultural Education and Communication. In addition, graduates may obtain positions in administration, human resource management, or training and development.

The **Agricultural Communication** specialization prepares students for professional communication careers in or dealing with agriculture and agribusiness. It is intended primarily for students who enter with a bachelor's degree in journalism, agricultural communication/journalism, advertising, broadcasting, public relations, or related fields. Graduates of this option are employed in: (1) communication or management positions with the numerous commodity or special-interest associations in agriculture and related fields; (2) communication support positions in agricultural extension and research information departments of land-grant universities, agencies of USDA, state Departments of Agriculture, and agricultural development projects overseas; (3) advertising and public relations positions with agribusiness firms or commodity associations; and (4) media positions involved in reporting on agriculture, agribusiness, and natural resource issues. Students in Agricultural Communication also develop strong skills/application in media writing, production, campaign strategies and/or Web design/desktop publishing. Graduates become prepared for positions in both public and private sectors in both industry and educational settings.

The **Agricultural Education** specialization is designed to enhance the careers of those employed in the educational professions in agriculture and natural resources. Regardless if one is employed in public school teaching, community college instruction, or training and development in agribusiness, students gain valuable knowledge and experience in designing, implementing, and evaluating educational programs. In addition, graduates of the program command added depth in the understanding of the teaching and learning process. This specialization may be designed to allow students to complete the requirements of teacher certification while completing their master's degree program. The PhD is a research-oriented degree that has a primary focus of preparing candidates to assume faculty positions in colleges or university teacher education programs. Candidates develop an individual program of study that provides a comprehensive knowledge of teaching and learning processes. The degree also seeks to extend the candidate's development by providing instruction, research opportunities, and experiences that enhance the

depth and breadth of the candidate's prior learning opportunities.

The **Extension Education** specialization is designed to prepare students for careers in the Cooperative Extension service, outreach education, and/ or other international agencies. Through coursework and research, students will gain valuable knowledge and experience in designing, implementing, and evaluating educational programs. Extension graduate students choose between a domestic or international focus in regards to coursework and/or research. In addition, graduates of the program command tremendous depth of the teaching and learning process. Candidates who select the **Extension Education** specialization develop an individual program of study that focuses on such topics as program development, experiential education, the change process, educational technologies and extension, program evaluation and organizational accountability, administration and leadership, and international extension. Graduates become prepared for a variety of positions including extension specialists, county and district extension directors, outreach education coordinators for private and public agencies, 4-H Extension agents and specialists, and educator specialists with international agencies.

The **Leadership Development** specialization is designed to prepare students for educational leadership, training and outreach positions in agricultural, extension, community and governmental agencies. Course work in the major will focus on a core of agricultural courses along with emphasis in designing educational/training programs, professional presentation enhancement, leadership development, teaching/training methods, and interpersonal communication. Candidates who select the **Leadership Development** specialization develop an individual program that focuses on leadership theory and measurement, critical and creative thinking, and leadership in cross-cultural settings. Students will encompass a strong research and theory-based program with a strong knowledge of training and development, and human resource management. Graduates become prepared for positions in both public and private sectors in both industry and educational settings.

Degrees Offered with a Major in Agricultural Education and Communication

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

Master of Science

without a concentration

concentration in Tropical Conservation and Development

Agricultural Education and Communication Courses

- AEC 5032: Agricultural Media Writing
- AEC 5037: Agricultural Media Production
- AEC 5060: Public Opinion and Agricultural and Natural Resource Issues
- AEC 5074: Agriculture, Resources, People, and the Environment: A Global Perspective
- AEC 5201: Teaching in Colleges of Agricultural and Life Sciences
- AEC 5203: Advanced Teaching in Colleges of Agricultural and Life Sciences
- AEC 5206: Teaching Methods in Agricultural Education
- AEC 5227: Teaching in Agricultural Education Laboratory Facilities
- AEC 5302: Professional Skill Development in Agriscience Education I
- AEC 5324: Philosophy and Development of Agricultural Education
- AEC 5454: Leadership Development for Extension and Community Nonprofit Organizations
- AEC 5501: Professional Skill Development in Agriscience Education II
- AEC 5541: Communication and Instructional Technologies in Agricultural and Life Sciences
- AEC 5544: Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies
- AEC 5545: Special Methods in Teaching Agriculture
- AEC 5546: Program Planning in Agricultural Education
- AEC 6205: Advanced Curriculum and Teaching Methods

- AEC 6210: Designing Educational Programs in Agricultural Settings
- AEC 6211: Delivering Educational Programs in Agricultural Settings
- AEC 6212: Teacher Education in Agriculture
- AEC 6229: Laboratory Instruction: Theory and Practice
- AEC 6300: Methodology of Planned Change
- AEC 6316: From America to Zimbabwe: An Overview of International Extension Systems
- AEC 6321: The Land Grant University and University Governance
- AEC 6325: History and Philosophy of Agricultural Education
- AEC 6419: Communication and Competencies for Global Leadership
- AEC 6426: Development of a Volunteer Leadership Program
- AEC 6512: Program Development in Extension Education
- AEC 6540: Agricultural and Natural Resources Communications Theory and Strategies
- AEC 6543: Teaching and Learning Theory: Applications in Agricultural Education
- AEC 6552: Evaluating Programs in Extension Education
- AEC 6611: Agricultural and Extension Adult Education
- AEC 6704: Extension Administration and Supervision
- AEC 6767: Research Strategies in Agricultural Education and Communication
- AEC 6905: Problems in Agricultural and Extension Education
- AEC 6910: Supervised Research
- AEC 6912: Nonthesis Research in Agricultural and Extension Education
- AEC 6933: Seminar in Agricultural Education and Communication
- AEC 6940: Supervised Teaching
- AEC 6945: Practicum in Agricultural Education and Communication
- AEC 6947: Experiential Learning in Agricultural Education
- AEC 6971: Research for Master's Thesis
- AEC 7979: Advanced Research
- AEC 7980: Research for Doctoral Dissertation
- AGG 5504: Critical and Creative Thinking in Problem Solving and Decision Making

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agronomy Department

Chair: R. A. Gilbert

Graduate Coordinator: L. E. Sollenberger

Complete faculty listing by department: [Follow this link.](#)

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis options) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agricultural and natural ecosystems in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

Other

Agronomy

College

[College of Agricultural and Life Sciences](#)

Department/School

[Agronomy Department](#)

Agronomy Program Information

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis option) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agronomic plants in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

Degrees Offered with a Major in Agronomy

Doctor of Philosophy

without a concentration

concentration in Toxicology

concentration in Tropical Conservation and Development

Master of Science

without a concentration

concentration in Agroecology

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

Agronomy Departmental Courses

- AGR 5215C: Integrated Field Crop Science
- AGR 5230C: Florida Grassland Agroecosystems
- AGR 5266C: Field Plot Techniques
- AGR 5277C: Tropical Crop Production
- AGR 5307: Molecular Genetics for Crop Improvement

- AGR 5321C: Genetic Improvement of Plants
- AGR 5444: Ecophysiology of Crop Production
- AGR 5511: Crop Ecology
- AGR 6233: Tropical Grassland Agroecosystems
- AGR 6237C: Research Techniques in Forage Evaluation
- AGR 6311: Population Genetics
- AGR 6322: Advanced Plant Breeding
- AGR 6325L: Plant Breeding Techniques
- AGR 6353: Cytogenetics
- AGR 6422C: Environmental Crop Nutrition
- AGR 6442C: Physiology of Agronomic Plants
- AGR 6905: Agronomic Problems
- AGR 6910: Supervised Research
- AGR 6932: Topics in Agronomy
- AGR 6933: Graduate Agronomy Seminar
- AGR 6940: Supervised Teaching
- AGR 6971: Research for Master's Thesis
- AGR 7979: Advanced Research
- AGR 7980: Research for Doctoral Dissertation
- ALS 5155: Global Agroecosystems
- IPM5305: Principles of Pesticides
- PLS 5632C: Integrated Weed Management
- PLS 5652: Advanced Weed Science
- PLS 6623: Weed Ecology
- PLS 6626: Invasive Plant Ecology
- PLS 6655: Plant/Herbicide Interaction

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology

- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology

- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Animal Sciences Department

Chair: G. E. Dahl

Graduate Coordinator: G. Adesogan

Complete faculty listing by department: [Follow this link.](#)

Animal Sciences is an academic department of the [College of Agriculture and Life Sciences \(CALS\)](#), a unit of the [Institute of Food and Agricultural Sciences \(IFAS\)](#). Creating new solutions to tomorrow's problems underlies everything we do in the Animal Sciences Program. In the areas of teaching, research, and extension, our faculty integrates the most modern technologies available with personal expertise and attention to the needs of students and our industry. For more information about the Animal Sciences program, please follow the link below.

Other

Animal Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Animal Sciences Department](#)

Animal Sciences Program

The Department of Animal Sciences offers the degrees of Master of Science and Doctor of Philosophy in animal sciences with emphasis in beef or dairy cattle, swine, or equine. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The following specializations are available:

- Breeding and genetics
- Management

- Nutrition (nutritional physiology, nutrient metabolism, and feedstuff utilization)
- Physiology (environmental, lactational, and reproductive)
- Molecular biology (embryology, endocrinology, and genetics)
- Meat science (meat processing, meat quality, muscle biology, and food safety)

A student may work on a problem covering more than one area of study. Animal resources (beef cattle, dairy cattle, horses, swine, sheep, and laboratory animals) are available for use in various research programs. Nutrition, physiology, and meats laboratories are available for detailed chemical and carcass quality evaluations, and excellent computer facilities are available. Special arrangements may be made to conduct research at the various branch agricultural experiment stations throughout Florida.

Departmental and program prerequisites for admission to graduate study include a sound science background, with basic courses in microbiology, biology, mathematics, and chemistry. All courses in the animal sciences program area are acceptable for graduate credit as part of the candidate's major.

The Graduate School restricts graduate students from pursuing minors in academic units that contribute major credit toward their degree program. Therefore, graduate students majoring in Animal Sciences cannot pursue a minor in Food and Resource Economics, Food Science and Human Nutrition, Medicine-Biochemistry, and Veterinary Medical Sciences. In addition, undergraduate credits at the 3000-4000 level in the major of any of these listed academic units are not eligible to count toward degree requirements.

Degrees Offered with a Major in Animal Sciences

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

Master of Science

without a concentration

Animal Sciences Departmental Courses

- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6314: Experimental Embryology
- ANS 6447: Ruminant Nutrition
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- ANS 6705: Muscle Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
- ANS 6767: Molecular Endocrinology
- ANS 6775: Essentials of Livestock Immunology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science

- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- PCB 6816: Thermal Physiology

Additional Courses for Major Credit in Animal Sciences

- AEB 5326: Agribusiness Financial Management
- AEB 6385: Management Strategies for Agribusiness Firms
- AEB 7182: Agricultural Risk Analysis and Decision Making
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5732: Current Issues in Food Regulations
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- VME 5162C: Avian Diseases
- VME 5244: Physiology: Organ Systems

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Entomology and Nematology Department

[College of Agricultural and Life Sciences](#)

Chair: John L. Capinera.

Graduate Coordinator: Heather J. McAuslane.

Complete faculty listing by department: [Follow this link.](#)

The Entomology and Nematology Department offers the Master of Science (thesis and nonthesis options) and Doctor of Philosophy degrees in entomology and nematology with the following specializations: entomology, nematology, and pest management. Minimum requirements for the M.S. and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

The Department also offers a cooperative Doctor of Philosophy degree with Florida A&M University and distance education courses leading to the M.S. degree. Members of the Graduate Faculty include the department resident faculty, faculty located on University of Florida campuses away from Gainesville, scientists with other State of Florida agencies such as the Division of Plant Industry and Florida Department of Agriculture and Consumer Services, and scientists of the U.S. Department of Agriculture. The Graduate Faculty is qualified to direct graduate students in all specialties of entomology, nematology, and acarology.

New graduate students should have backgrounds in biology, chemistry, physics, and mathematics. Minor deficiencies may be made up after entering graduate school.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please see the program page below, and visit our website: <http://entnemdept.ufl.edu>.

Other

Entomology and Nematology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Entomology and Nematology Department](#)

Entomology and Nematology Program Information

The Entomology and Nematology department offers research-based M.S. (thesis) and PhD degrees in entomology and in nematology. Our large faculty in Gainesville and at Research and Education Centers around the state allow for study in many important areas, including behavior, ecology, systematics, biological control, nematology, pest management, and medical, veterinary and urban entomology. Molecular, whole organism and population ecology studies are all within the range of supported research in the Entomology and Nematology department, and our nematology program is one of the most comprehensive in the nation.

The M.S. degree can be taken in a non-thesis format, in Gainesville or entirely online, with a specialization in either entomology or pest management. Online M.S. degrees are designed to accommodate place-bound students interested in biological science with emphasis on insects and other arthropods, including extension faculty and other educators; state and federal employees in agricultural, environmental and regulatory positions; consultants; pest control industry personnel; and others who want to further their education.

Certificates, comprising 15 credit hours of specific coursework, are available online or to residential students with concentrations in urban pest management, landscape pest management or medical entomology. These certificates document specialization and proficiency in sub-disciplines within entomology for enrolled graduate students and provide evidence of expertise for non-degree seeking students.

Students entering graduate programs in entomology and nematology should have a strong science background, including biology, chemistry, and algebra. Physics and statistics are recommended. Admissions criteria can be found on the Graduate School's [Admission](#) page.

Degrees Offered with a Major in Entomology and Nematology

Doctor of Philosophy

Master of Science

Entomology and Nematology Departmental Courses

- ALS 5156: Agricultural Ecology Principles and Applications
- ALS 6046: Grant Writing
- ALS 6166: Exotic Species and Biosecurity Issues
- ALS 6935: Topics in Biological Invasions
- ENY 5006: Graduate Survey of Entomology
- ENY 5006L: Graduate Survey of Entomology Laboratory
- ENY 5031C: Insect Field Biology
- ENY 5151C: Techniques in Insect Systematics
- ENY 5160C: Survey of Science with Insects
- ENY 5164: Graduate Survey of Invertebrate Field Biology
- ENY 5212: Insects and Wildlife
- ENY 5223C: Biology and Identification of Urban Pests
- ENY 5226C: Principles of Urban Pest Management
- ENY 5332: Graduate Survey of Urban Vertebrate Pest Management
- ENY 5236: Insect Pest and Vector Management
- ENY 5241: Biological Control
- ENY 5245: Agricultural Acarology
- ENY 5405: Insects as Vectors of Plant Pathogens
- ENY 5516: Turf and Ornamental Entomology
- ENY 5566: Tropical Entomology
- ENY 5567: Tropical Entomology Field Laboratory
- ENY 5572: Advanced Apiculture
- ENY 5611: Immature Insects
- ENY 5820: Insect Molecular Genetics
- ENY 6166: Insect Classification
- ENY 6203: Insect Ecology
- ENY 6203L: Insect Ecology Laboratory

- ENY6248: Termite Biology and Control
- ENY6401: Insect Physiology
- ENY6401L: Insect Physiology Laboratory
- ENY6454: Behavioral Ecology and Systematics of Insects
- ENY6591C: Advanced Mosquito Identification
- ENY6593: Advanced Mosquito Biology
- ENY6651C: Insect Toxicology
- ENY6665: Advanced Medical and Veterinary Entomology I
- ENY6665L: Advanced Medical and Veterinary Entomology Laboratory
- ENY6706: Forensic Entomology
- ENY6706L: Forensic Entomology Laboratory
- ENY6821: Insect Microbiology
- ENY6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens
- ENY6905: Problems in Entomology
- ENY6910: Supervised Research
- ENY6931: Entomology Seminar
- ENY6932: Special Topics in Entomology
- ENY6934: Selected Studies in Entomology
- ENY6940: Supervised Teaching
- ENY6942: Insect Diagnostics
- ENY6943: Entomology Internship
- ENY6944: Entomology Extension Internship
- ENY6971: Research for Master's Thesis
- ENY7979: Advanced Research
- ENY7980: Research for Doctoral Dissertation
- NEM5004C: Graduate Survey of Nematology
- NEM5707C: Plant Nematology
- NEM6101C: Nematode Morphology and Anatomy
- NEM6102: Nematode Systematics and Molecular Phylogeny
- NEM6102L: Nematode Systematics and Molecular Phylogeny Laboratory
- NEM6103: Insect Parasitic Nematodes
- NEM6104L: Insect Parasitic Nematodes Laboratory
- NEM6201: Nematode Ecology
- NEM6708: Field Plant Nematology
- NEM6905: Problems in Nematology
- NEM6931: Nematology Seminar
- NEM6932: Special Topics in Nematology
- NEM6934: Selected Studies in Nematology
- NEM6940: Supervised Teaching
- NEM6942: Nematode Diagnostics
- NEM6943: Nematode Internship
- NEM6944: Nematode Extension Internship
- NEM6971: Research for Master's Thesis
- NEM7979: Advanced Research
- NEM7980: Research for Doctoral Dissertation
- PMA5205: Citrus Pest Management
- PMA6228: Field Techniques in Integrated Pest Management

College of Agricultural and Life Sciences Courses

- ALS5106: Food and the Environment
- ALS5364C: Molecular Techniques Laboratory
- ALS5905: Individual Study
- ALS5932: Special Topics
- ALS6046: Grant Writing
- ALS6921: Colloquium on Plant Pests of Regulatory Significance
- ALS6925: Integrated Plant Medicine
- ALS6930: Graduate Seminar
- ALS6931: Plant Medicine Program Seminar
- ALS6942: Principles of Plant Pest Risk Assessment and Management
- ALS6943: Internship in Plant Pest Risk Assessment and Management
- BCH5045: Graduate Survey of Biochemistry

Plant Medicine

College

[College of Agricultural and Life Sciences](#)

Department/School

[Entomology and Nematology Department](#)

Plant Medicine Program Information

Coordinator: Amanda C. Hodges

The Doctor of Plant Medicine (DPM) program is an intensive doctorate-level graduate level training program for students interested in plant health diagnosis and management. Requirements for the degree can be found in the [Graduate Degrees](#) section of this catalog

DPM students complete rigorous coursework and intensive internships. Only DPM students jointly enrolled in one of our discipline department M.S. or Ph.D. programs complete a thesis or dissertation. DPM students often participate in applied research within laboratory programs, and may participate in the publication of peer-reviewed scientific and extension papers. More information regarding the latest policies for the DPM program is available in the [DPM graduate handbook](#).

The DPM program is a partnership among faculty mentors and teaching faculty within the following primary departments:

- Entomology and Nematology Department
- Department of Plant Pathology
- Agronomy Department
- Horticulture Sciences Department
- Environmental Horticulture Department
- Soil and Water Sciences Department
- Food Science and Human Nutrition Department

For more information, please see the DPM website: <http://dpm.ifas.ufl.edu>.

Degrees Offered with a Major in Plant Medicine

Doctor of Plant Medicine

without a concentration

concentration in Tropical Conservation and Development

Agronomy Departmental Courses

- AGR 5215C: Integrated Field Crop Science
- AGR 5230C: Florida Grassland Agroecosystems
- AGR 5266C: Field Plot Techniques
- AGR 5277C: Tropical Crop Production
- AGR 5307: Molecular Genetics for Crop Improvement
- AGR 5321C: Genetic Improvement of Plants
- AGR 5444: Ecophysiology of Crop Production
- AGR 5511: Crop Ecology
- AGR 6233: Tropical Grassland Agroecosystems
- AGR 6237C: Research Techniques in Forage Evaluation
- AGR 6311: Population Genetics
- AGR 6322: Advanced Plant Breeding
- AGR 6325L: Plant Breeding Techniques
- AGR 6353: Cytogenetics
- AGR 6422C: Environmental Crop Nutrition
- AGR 6442C: Physiology of Agronomic Plants
- AGR 6905: Agronomic Problems
- AGR 6910: Supervised Research
- AGR 6932: Topics in Agronomy
- AGR 6933: Graduate Agronomy Seminar
- AGR 6940: Supervised Teaching
- AGR 6971: Research for Master's Thesis
- AGR 7979: Advanced Research
- AGR 7980: Research for Doctoral Dissertation
- ALS 5155: Global Agroecosystems
- IPM5305: Principles of Pesticides
- PLS 5632C: Integrated Weed Management
- PLS 5652: Advanced Weed Science
- PLS 6623: Weed Ecology
- PLS 6626: Invasive Plant Ecology
- PLS 6655: Plant/Herbicide Interaction

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Entomology and Nematology Departmental Courses

- ALS 5156: Agricultural Ecology Principles and Applications
- ALS 6046: Grant Writing
- ALS 6166: Exotic Species and Biosecurity Issues
- ALS 6935: Topics in Biological Invasions
- ENY 5006: Graduate Survey of Entomology
- ENY 5006L: Graduate Survey of Entomology Laboratory
- ENY 5031C: Insect Field Biology
- ENY 5151C: Techniques in Insect Systematics
- ENY 5160C: Survey of Science with Insects
- ENY 5164: Graduate Survey of Invertebrate Field Biology
- ENY 5212: Insects and Wildlife
- ENY 5223C: Biology and Identification of Urban Pests
- ENY 5226C: Principles of Urban Pest Management
- ENY 5332: Graduate Survey of Urban Vertebrate Pest Management
- ENY 5236: Insect Pest and Vector Management
- ENY 5241: Biological Control
- ENY 5245: Agricultural Acarology
- ENY 5405: Insects as Vectors of Plant Pathogens
- ENY 5516: Turf and Ornamental Entomology
- ENY 5566: Tropical Entomology
- ENY 5567: Tropical Entomology Field Laboratory
- ENY 5572: Advanced Apiculture
- ENY 5611: Immature Insects
- ENY 5820: Insect Molecular Genetics
- ENY 6166: Insect Classification
- ENY 6203: Insect Ecology
- ENY 6203L: Insect Ecology Laboratory
- ENY 6248: Termite Biology and Control
- ENY 6401: Insect Physiology
- ENY 6401L: Insect Physiology Laboratory
- ENY 6454: Behavioral Ecology and Systematics of Insects
- ENY 6591C: Advanced Mosquito Identification
- ENY 6593: Advanced Mosquito Biology
- ENY 6651C: Insect Toxicology
- ENY 6665: Advanced Medical and Veterinary Entomology I
- ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory
- ENY 6706: Forensic Entomology
- ENY 6706L: Forensic Entomology Laboratory
- ENY 6821: Insect Microbiology
- ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens
- ENY 6905: Problems in Entomology
- ENY 6910: Supervised Research
- ENY 6931: Entomology Seminar
- ENY 6932: Special Topics in Entomology
- ENY 6934: Selected Studies in Entomology
- ENY 6940: Supervised Teaching
- ENY 6942: Insect Diagnostics

- ENY6943: Entomology Internship
- ENY6944: Entomology Extension Internship
- ENY6971: Research for Master's Thesis
- ENY7979: Advanced Research
- ENY7980: Research for Doctoral Dissertation
- NEM5004C: Graduate Survey of Nematology
- NEM5707C: Plant Nematology
- NEM6101C: Nematode Morphology and Anatomy
- NEM6102: Nematode Systematics and Molecular Phylogeny
- NEM6102L: Nematode Systematics and Molecular Phylogeny Laboratory
- NEM6103: Insect Parasitic Nematodes
- NEM6104L: Insect Parasitic Nematodes Laboratory
- NEM6201: Nematode Ecology
- NEM6708: Field Plant Nematology
- NEM6905: Problems in Nematology
- NEM6931: Nematology Seminar
- NEM6932: Special Topics in Nematology
- NEM6934: Selected Studies in Nematology
- NEM6940: Supervised Teaching
- NEM6942: Nematode Diagnostics
- NEM6943: Nematode Internship
- NEM6944: Nematode Extension Internship
- NEM6971: Research for Master's Thesis
- NEM7979: Advanced Research
- NEM7980: Research for Doctoral Dissertation
- PMA5205: Citrus Pest Management
- PMA6228: Field Techniques in Integrated Pest Management

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis

- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

Horticultural Sciences Departmental Courses

- ALS 5934: Graduate Professional Development Seminar
- HOS 5085C: Principles of Postharvest Horticulture
- HOS 5115C: Horticultural Plant Morphology and Identification
- HOS 5242: Genetics & Breeding of Vegetable Crops
- HOS 5306: Molecular Biology of Plant Hormones
- HOS 5330: Postharvest Technologies for Horticultural Crops
- HOS 5432: Advanced Nutritional Management of Ornamental Crops
- HOS 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding
- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6545: Advanced Citriculture I
- HOS 6546: Advanced Citriculture II
- HOS 6905: Problems in Horticultural Science
- HOS 6910: Supervised Research
- HOS 6931: Horticultural Science Seminar
- HOS 6932: Special Topics
- HOS 6940: Supervised Teaching
- HOS 6941: Practicum in Horticultural Science
- HOS 6971: Research for Master's Thesis
- HOS 7979: Advanced Research
- HOS 7980: Research for Doctoral Dissertation
- ORH 5026C: Advanced Annual and Perennial Gardening
- ORH 5086: Advanced Golf and Sports Turf Management
- ORH 5282: Orchid Biology and Culture
- ORH 5322C: Palm Biology and Culture
- ORH 5817C: Advanced Florida Native Landscaping
- ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

Plant Pathology Departmental Courses

- PLP 5005C: General Plant Pathology
- PLP 5102: Theory and Practice of Plant Disease Control
- PLP 5115C: Citrus Pathology
- PLP 5155: Microbiological Control of Plant Diseases and Weeds
- PLP 6656C: Fungal Biology
- PLP 6223C: Viral Pathogens of Plants
- PLP 6241C: Bacterial Plant Pathogens
- PLP 6262C: Fungal Plant Pathogens
- PLP 6291: Plant Disease Diagnosis
- PLP 6303: Host-Parasite Interactions II
- PLP 6404: Epidemiology of Plant Disease
- PLP 6502: Host-Parasite Interactions I
- PLP 6621C: Pop Genetics Microbes
- PLP 6905: Problems in Plant Pathology
- PLP 6910: Supervised Research
- PLP 6921: Colloquium in Principles of Plant Pathology
- PLP 6932: Seminar in Plant Pathology
- PLP 6940: Supervised Teaching
- PLP 6942: Professional Internship in Plant Disease Clinic
- PLP 6971: Research for Master's Thesis
- PLP 7946: Plant Pathology Internship
- PLP 7979: Advanced Research
- PLP 7980: Research for Doctoral Dissertation

Soil and Water Science Departmental Courses

- ALS 5027: Reusable Learning Objects
- ALS 5155: Global Agroecosystems
- CWR 6537: Contaminant Subsurface Hydrology
- SWS 5050: Soils for Environmental Professionals
- SWS 5050L: Soils for Environmental Professionals Laboratory
- SWS 5115: Environmental Nutrient Management
- SWS 5132: Tropical Soil Management
- SWS 5182: Earth System Analysis
- SWS 5208: Sustainable Agricultural and Urban Land Management
- SWS 5234: Environmental Soil, Water, and Land Use
- SWS 5235: South Florida Ecosystems
- SWS 5224: Environmental Biogeochemistry
- SWS 5246: Water Resource Sustainability
- SWS 5247: Hydric Soils
- SWS 5248: Wetlands and Water Quality
- SWS 5305C: Soil Microbial Ecology
- SWS 5308: Ecology of Waterborne Pathogens
- SWS 5406: Soil and Water Chemistry
- SWS 5424C: Soil Chemical Analysis
- SWS 5551: Soils, Water, and Public Health
- SWS 5605C: Environmental Soil Physics
- SWS 5716C: Environmental Pedology
- SWS 5721C: GIS in Land Resource Management
- SWS 5805: Environmental Soil and Water Monitoring Techniques
- SWS 6134: Soil Quality
- SWS 6136: Soil Fertility
- SWS 6161: Bioavailability of Soil Nutrients
- SWS 6262: Soil Contamination and Remediation
- SWS 6323: Advanced Microbial Ecology
- SWS 6325: Rhizosphere Biochemistry
- SWS 6366: Biodegradation and Bioremediation
- SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6722: Soil-Landscape Modeling
- SWS 6905: Special Problems
- SWS 6910: Supervised Research
- SWS 6931: Seminar
- SWS 6932: Topics in Soils
- SWS 6940: Supervised Teaching
- SWS 6971: Research for Master's Thesis
- SWS 7979: Advanced Research
- SWS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing

- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Family, Youth, and Community Sciences Department

Interim Chair: Tracy Irani

Graduate Coordinator: Larry F. Forthun

Complete faculty listing by department: [Follow this link](#)

The FYCS graduate program is an interdisciplinary applied social science program that prepares students for advanced degrees (e.g., Ph.D.) and careers in such areas as family and youth services, Extension and community-based education, community development and nonprofit management, program planning and evaluation, and social policy. Graduates find careers in both the public and private sectors including:

- Child and Youth Development in areas such as juvenile justice, dropout prevention programs, recreational and camp programs, and youth ministry;
- Community Development Practice in local and regional government, private nonprofit organizations (such as chambers of commerce, local development corporations, and local, national and international foundations) and citizen's groups;
- Nonprofit Organizational Management, such as management of community based, nonprofit organizations;
- Family and Social Services, such as family preservation programs, assistance for abused and neglected children and other public assistance programs; and
- Cooperative Extension Service in such areas as youth development, family and consumer sciences and community development.

Contact the graduate coordinator for more information.

Other

Family, Youth, and Community Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Family, Youth, and Community Sciences Department](#)

Master of Science in Family, Youth and Community Sciences

The Master of Science in FYCS offers two degree options—a thesis and a non-thesis. Both options prepare students for advanced professional positions. FYCS students in either option may complete the FYCS Concentration in Nonprofit Organizational Development, the Certificate in Nonprofit Organizational Development, or the Certificate in Personal & Family Financial Planning.

Thesis Option prepares students to conduct independent research needed to develop science-based solutions to problems, issues and policies that affect families, youth and communities. Students develop expertise in a subject matter area directly relevant to the problem or need they want to address with the thesis research.

Non-Thesis Project Option provides the student with a broad base of knowledge and skills in the discipline. Students complete a non-thesis project determined in consultation with the supervisory committee. Projects vary in nature and may include directed research, program evaluation, or other empirically-based projects.

The Minor in Family, Youth and Community Sciences provides students with knowledge about the theories and body of research that explain how families, youth and communities develop and interact. The minor consists of nine hours of study.

The Minor in Organizational Leadership for Nonprofits provides students with an understanding of how to develop not-for-profit organizations to address problems facing families, youth and communities. The minor consists of six hours of study (nine hours for doctoral students).

Concentration in Nonprofit Organizational Development The nonprofit organizational development concentration will prepare students to work with tax exempt nonprofit organizations and informal community based groups that serve a charitable purpose for the public good. The concentration includes the study of the historical development of nonprofits in the US that enable students to understand the unique aspects of nonprofits and their growing importance and impact on our society. It provides students with a knowledge base for aspiring nonprofit organizational leaders and proven competencies for practicing professionals in the nonprofit sector.

The Graduate Certificate in Nonprofit Leadership will prepare students to work with all 501 (c) nonprofit organizations, tax exempt and others. Courses provide an in depth understanding for developing and sustaining and efficient and effective nonprofit organization. Core competencies in governance, strategic planning, fund raising, and risk management are included as well as other tools.

The Graduate Certificate in Personal and Family Financial Planning The certificate addresses the Certified Financial Planner™ (CFP) Board of Standards education requirement for sitting for the CFP examination, including insurance, personal investing, retirement planning, tax planning, behavioral finance, financial planning practice management and foundational family economic theories. The CFP designation is the leading standard in financial planning and our program is registered with the CFP Board of Standards enabling students to sit for the exam upon completion of the certificate.

Degrees Offered with a Major in Family, Youth, and Community Sciences

Master of Science

without a concentration

concentration in Community Studies

concentration in Family and Youth Development

concentration in Nonprofit Organization Development

Courses

- FYC 5008: Personal and Family Tax Planning
- FYC 5009: Personal and Family Insurance Planning
- FYC 5106: Personal and Family Retirement and Estate Planning
- FYC 5935: Personal and Family Financial Planning Capstone
- FYC 6020: Principles of Family, Youth, and Community Sciences
- FYC 6111: Families and Violence
- FYC 6117: Military Families in Community Context
- FYC 6131: Ethics for FYCS Practitioners
- FYC 6207: Adolescent Problematic Behavior
- FYC 6221: Grant Proposals for Community-Based Organizations
- FYC 6222: Parenting and Child Relationships
- FYC 6223: Promoting Positive Youth Development
- FYC 6224: Resilience and Positive Youth Development
- FYC 6230: Theories of Youth and Family Development
 - FYC 6232
- FYC 6234: Theoretical Approaches to Youth Programming
- FYC 6302: Sustainable Community Development
- FYC 6320: Community Development and Civic Engagement
- FYC 6330: Theories of Community Development
- FYC 6331: Involving Youths in Community Issues
- FYC 6412: Historical Foundations of Philanthropy
- FYC 6421: Nonprofit Organizations
- FYC 6422: Policy Issues and Case Studies in Nonprofit Organizations
- FYC 6423: Non-Governmental Organizations
- FYC 6424: Fund Raising for Community Nonprofit Organizations
- FYC 6425: Risk Management in Nonprofit Organizations
- FYC 6620: Program Planning and Evaluation for Human Service Delivery
- FYC 6662: Public Policy and Human Resource Development
- FYC 6800: Scientific Reasoning and Research Design
- FYC 6802: Advanced Research Methods for Family, Youth, and Community Sciences
- FYC 6901: Problems in Family, Youth, and Community Sciences
- FYC 6912: Nonthesis Project in Family, Youth, and Community Sciences
- FYC 6932: Topics, in Family, Youth, and Community Sciences
- FYC 6933: Seminar in Human Resource Development
- FYC 6934: Professional Internship/Practicum in Family, Youth, and Community Sciences
- FYC 6971: Research for Master's Thesis

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment

- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food and Resource Economics Department

[College of Agricultural and Life Sciences](#)

Interim Chair: Rodney L. Clouser

Acting Graduate Coordinator: Sherry Larkin

Complete faculty listing by department: [Follow this link](#)

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Department participates in programs with the Center for Latin American Studies, the Center for African Studies, the Center for Tropical Agriculture, the School of Natural Resources and Environment, the College of Law, and the Florida Sea Grant College Program.

The Department programs reflect the diversity of Florida's agriculture which has more than fifty major commodities. With over thirty faculty involved in a full range of research, extension, and teaching programs in areas including Agricultural Marketing, International Trade, Policy, Production/Farm Management, International Development, Marine Economics, Natural Resource and Environmental Economics, Community/Regional Development and Labor Economics. In addition to the main campus location, the department has faculty at research centers throughout the state.

Several members of the faculty have garnered international reputations in diverse fields such as trade policy, generic advertising, citrus economics, sugar policy, business retention and expansion, leadership development, consumer attitudes towards genetically modified food, and dairy marketing.

The Department offers a combined bachelor's/master's degree program for the Master of Science and Master of Science with Concentration in Agribusiness. Contact the Graduate Program Office in 1170 McCarty Hall for information.

For more information, please see the program pages below, and see our website: <http://www.fred.ifas.ufl.edu>.

Other

Food and Resource Economics

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food and Resource Economics Department](#)

Food and Resource Economics Program Information

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB.) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The **Ph.D. in Food and Resource Economics** is designed to provide the student with rigorous training in economics, statistics, and applied quantitative techniques. Each student is exposed to core theory and to fields of specialization with the purpose to prepare the candidate for a professional career in post-secondary education, government, non-governmental organizations, private business, and international agencies.

The **Master of Agribusiness** is designed specifically for students with no academic background in economics or agricultural economics. The program is made up of students from diverse backgrounds including Accounting, Agricultural Education and Communication, Agricultural Operations Management, Animal Science, Business Administration, Finance, Food Science, Horticulture, Management, Turfgrass, and Wildlife Ecology and Conservation. The graduate coursework complements the student's undergraduate background and prepare them for careers in financial analysis, sales, management, marketing, human resources, policy, production, and entrepreneurial pursuits working in private industry, international firms, non-profit organizations and government.

The **Master of Science** in the Food and Resource Economics Department provides broad training in applied economics as it relates to food production, marketing and trade, regional economics, and natural resource issues. Students are taught to use basic economic principles and quantitative methods to address empirical problems. The core consists of graduate level courses in microeconomics, policy, econometrics, statistics and survey research methods. Many students elect to continue their education with a Ph.D. degree while others opt for employment with government agencies, non-governmental organizations, foreign agencies, private consulting firms, or corporations.

The **Master of Science with Concentration in Agribusiness** is designed specifically for students with an educational background in economics and agricultural economics. The quantitative courses include microeconomics, policy, econometrics and survey research methods and provide solid economic theory to prepare students for careers in financial analysis, sales, management, marketing, human resources, policy, production, and entrepreneurial pursuits working in private industry, international firms, non-profit organizations and government.

For more information, please see our website: <http://www.fred.ifas.ufl.edu>.

Degrees Offered with a Major in Food and Resource Economics

Doctor of Philosophy

without a concentration

with a concentration in Hydrologic Sciences

with a concentration in Toxicology

with a concentration in Tropical Conservation and Development

Master of Agribusiness

without a concentration

with a concentration in Tropical Conservation and Development

Master of Science

without a concentration

with a concentration in Agribusiness

with a concentration in Hydrologic Sciences

with a concentration in Toxicology

with a concentration in Tropical Conservation and Development

Courses

- AEB 5167: Economic Analysis in Small Farm Livelihood Systems
- AEB 5188: Economics of Agribusiness Decisions
- AEB 5326: Agribusiness Financial Management
- AEB 5516: Quantitative Methods in Agribusiness Decisions
- AEB 5757: Strategic Agribusiness Human Resource Management
- AEB 6106: Microeconomic Principles and Analysis
- AEB 6139: Strategic Agribusiness Management
- AEB 6145: Agricultural Finance
- AEB 6183: Agribusiness Risk Management
- AEB 6225: Public Policy and the Agribusiness Firm
- AEB 6301: Food Wholesale and Retail Marketing
- AEB 6363: Agricultural Marketing
- AEB 6385: Management Strategies for Agribusiness Firms
- AEB 6533: Static and Dynamic Optimization Models in Agriculture
- AEB 6553: Elements of Econometrics
- AEB 6592: Mathematical Programming for Economic Analysis
- AEB 6675: International Agribusiness Marketing
- AEB 6815: Science and Research Methodology
- AEB 6817: Survey Research Methods for Economists
- AEB 6905: Problems in Food and Resource Economics
- AEB 6910: Supervised Research
- AEB 6921: Workshop in Food and Resource Economics I
- AEB 6933: Special Topics
- AEB 6934: Workshop in Food and Resource Economics II
- AEB 6942: Advanced Applications in Agribusiness Experience
- AEB 6971: Research for Master's Thesis
- AEB 7108: Microeconomic Theory II
- AEB 7174: Economic Coordination and Organizational Behavior in Agribusiness
- AEB 7182: Agricultural Risk Analysis and Decision Making
- AEB 7184: Production Economics
- AEB 7240: Macroeconomic Theory in Open Economies II
- AEB 7373: Consumer Demand and Applied Analysis
- AEB 7453: Natural Resource and Environmental Economics
- AEB 7483: Seminar in Natural Resource and Environmental Economics
- AEB 7571: Econometric Methods I
- AEB 7572: Econometric Methods II
- AEB 7645: Economic Development and Agriculture
- AEB 7979: Advanced Research
- AEB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food Science and Human Nutrition Department

[College of Agricultural and Life Sciences](#)

Chair: Susan S. Percival

Graduate Coordinators: Harry S. Sitren (M.S. in Food Science and Human Nutrition / Ph.D. in Food Science), James F. Collins (Ph.D. in Nutritional Sciences)

Complete faculty listing by department: [Follow this link.](#)

The Food Science and Human Nutrition Department (FSHN) is one of the world's largest combined academic programs where food science, nutritional sciences, and dietetics are all studied within one department. FSHN has nearly 30 full-time faculty members, 80 graduate assistants, and close to 1,000 undergraduate students. Our programs are accredited by the [Institute of Food](#)

[Technologists](#) (IFT) and the [Academy of Nutrition and Dietetics](#). After completing undergraduate degrees, our students typically move on to professional employment, further education or training in food or nutrition graduate programs, or on to professional school programs. We have a strong record of excellent placement of our graduate students in industry and professional organization employment positions, as faculty members at colleges and universities, or in postdoctoral training experiences.

Our faculty has trained at institutions from around the world; they have been widely successful in their teaching, research, and extension efforts. Throughout our programs in food science, nutrition, and dietetics, our faculty is recognized nationally and internationally as experts in their respective fields.

The Food Science and Human Nutrition Department offers programs leading to the degrees of Master of Science in Food Science and Human Nutrition, Doctor of Philosophy in Food Science, and Doctor of Philosophy in Nutritional Sciences (offered under the auspices of the [Center for Nutritional Sciences](#)). Minimum requirements for these degrees are located in the Graduate Degrees section of this catalog

For more information please click the links to the program pages below, or see our website: <http://fshn.ifas.ufl.edu>.

Other

Food Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Food Science Program Information

The Ph.D. program in Food Science is a multidisciplinary program consisting of Food Chemistry, Food Processing and Engineering, and Food Microbiology and Safety. Students are expected to obtain a breadth of food science knowledge by taking courses in all program areas with the majority of courses stressing one of the three areas of emphasis.

For further information, please see our website at: <http://fshn.ifas.ufl.edu>.

Doctor of Philosophy

without a concentration

concentration in Toxicology

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety

- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food Science and Human Nutrition

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Food Science and Human Nutrition Program

The M.S. program offers tracks in food science and in nutritional sciences. The Institute of Food Technologists and the American Society for Nutrition recognize these concentrations. The department also offers a combined Master of Science-Dietetics Internship (MS-DI) program accredited by the Commission on Accreditation for Dietetic Education (CADE). Students who complete this program are eligible to take the national registration examination to become a registered dietitian. Only graduates from a CADE accredited/approved Didactic Program in Dietetics are eligible for the MS-DI program.

Specific areas of study include nutritional biochemistry/molecular biology, nutrient function/metabolism, medical nutrition therapy/dietetics, nutritional immunology, food

processing/engineering, food chemistry/biochemistry, and food safety/microbiology/quality.

Applicants must have an adequate background in physical and biological sciences and food science or nutritional sciences. Students with specific deficiencies will be required to take prerequisite courses.

For further information, please see our website at: <http://fshn.ifas.ufl.edu>.

Degrees Offered with a Major in Food Science and Human Nutrition

Master of Science

without a concentration

concentration in Nutritional Sciences

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
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- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
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- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research

- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Nutritional Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Nutritional Sciences Program

The field of nutritional science has unprecedented public interest. This is fostered by evolving links between diet and health, and the impact of one's individual genetic makeup on nutrient utilization. The Ph.D. degree program in Nutritional Sciences is interdisciplinary, with participating CALS, COM, CLAS, and CVM faculty directing research of doctoral students, where the full spectrum of Nutritional Sciences is available. Emphasis areas include basic nutritional sciences, biochemistry and molecular biology, genetics, immunology, physiology, clinical nutrition, microbiology, and biostatistics.

Students are admitted to the program after the bachelor's degree or a master's degree in nutritional sciences or a related field. Applicants should have a strong undergraduate background in biological sciences and chemistry. Deficiencies may be made up during the first year of graduate study.

Additional information can be found at <http://nutritionalsciences.centers.ufl.edu>.

For additional information, e-mail Dr. Mitchell D. Knutson, Director at mknutson@ufl.edu or Dr. James F. Collins, Graduate Coordinator at jfcollins@ufl.edu.

Degrees Offered with a Major in Nutritional Sciences

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Nutritional Sciences Program Core Courses

[BCH 6206: Advanced Metabolism](#)

[HUN 6938: Nutritional Sciences Seminar](#)

[STA 6166: Statistical Methods in Research I](#)

[HUN 6301: Nutritional Aspects of Lipid Metabolism](#)

[HUN 6305: Nutritional Aspects of Carbohydrates](#)

[HUN 6321: Proteins and Amino Acids in Nutrition](#)

[HUN 6331: Vitamins in Human Nutrition](#)

[HUN 6356: Minerals in Nutrition](#)

Additional Course Offerings

The following courses may be taken to contribute to the overall degree award requirements.

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
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- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
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- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Horticultural Sciences Department

[College of Agricultural and Life Sciences](#)

Chairs : K.M. Folta (Interim Chair, Horticultural Sciences) and W. Mackay (Environmental Horticulture)

Graduate Coordinator: G. A. Moore (Horticultural Sciences) and L. Trenholm (Environmental Horticulture)

Complete faculty listing: [Follow this link](#).

The Horticultural Sciences Department Graduate Program at the University of Florida has a wide array of opportunities for graduate study.

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

The Horticultural Sciences Department offers a combined bachelor's/master's degree program. Please contact the graduate coordinator for information.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest. Details about the program and how to apply are listed on their website: <http://hos.ufl.edu>.

Other

Horticultural Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Horticultural Sciences Department](#)

Environmental Horticulture Department

Horticultural Sciences Program Information

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest.

Requirements:

A strong undergraduate or graduate background in horticultural, biological, agronomic, or other disciplines in the life sciences and undergraduate coursework in chemistry, physics, and mathematics. A prospective graduate student need not have majored in horticulture as an undergraduate or master's student; however, students with curriculum deficiencies are required to take prerequisite subjects during the first year of graduate study. Undergraduate courses taken to correct curriculum deficiencies do not count for graduate program credit.

Specializations in the HS department focus on vegetable and fruit crops and include

- Plant Breeding and Genetics
- Crop Production and Nutrient Management
- Postharvest Biology
- Organic Sustainable Agriculture
- Weed Science
- Physiology and Biochemistry
- Plant Molecular Biology
- Protected Agriculture

Numerous HS and HSE faculty participate in the interdisciplinary Plant Molecular and Cellular Biology Program. Students interested in molecular biology/biotechnology may pursue molecular-oriented studies in any listed specialization. Students interested in full specialization in molecular and related disciplines should contact the Plant Molecular and Cellular Biology interdisciplinary program for specific requirements.

Specializations in the HSE department:

- Breeding and Genetics
- Restoration Ecology
- Floriculture
- Foliage Production
- Plant anatomy and development
- Plant Biotechnology
- Plant Restoration Conservation Biotechnology
- Stress Physiology
- Taxonomy
- Tissue Culture
- Turfgrass Science
- Woody Plants

Graduate School Degree Program Requirements Master of Science (thesis option):

Students must earn at least 30 credits as a graduate student at UF. No more than 9 of the 30 credits (earned with a grade of A, B+, or B) may be transferred from institutions approved for this purpose by the Dean of the Graduate School. A minimum of 12 credits is required in the Horticultural Sciences major; additionally, a maximum of 6 credits in HOS 6971- Master's Research - may be counted toward the total credits. [See here for information on M.S. graduate degrees.](#)

A minor may be chosen in an academic unit other than the major. If a minor is chosen, at least 6 credits of course work are required in the minor field. Two 6-credit minors may be taken with the major academic unit's permission. A 3.00 (truncated) GPA is required for minor credit. In addition, a representative from the department in which the minor is being received must be on the supervisory committee.

Master of Science non-thesis option:

This option offers additional training beyond the bachelor's degree in a horticultural specialization. Essential elements of this program include a program of courses and a comprehensive written and/or final oral qualifying examination. There is no thesis requirement. A minimum of 30 credit hours of course work is required. Courses taken for program credit must be numbered 5000 or higher with at least 15 of these credits in the Horticultural Science major. With supervisory committee and college dean approval, 6 hours of 3000- or 4000-level undergraduate courses, taught outside the major department, may count toward the minimum requirements for the degree. [Click for information on all graduate degrees.](#)

A minor may be chosen in an academic unit other than the major. If a minor is chosen, at least 6 credits of work are required in the minor field. Two 6-credit minors may be taken with the major academic unit's permission. A 3.00 (truncated) GPA is required for minor credit. In addition, a representative from the department in which the minor is being received must be on the supervisory committee.

Doctor of Philosophy:

The Doctor of Philosophy is a research degree and is granted on evidence of general proficiency, distinctive attainment in a special field, and ability to conduct independent investigation as demonstrated in a dissertation presenting original research with a high degree of literary skill. Consequently, doctoral programs are more flexible and varied than those leading to M.S. degree programs. The Ph.D. degree requires at least 90 credits beyond the bachelor's degree, although specific course requirements vary from field to field and from student to student. Up to 30 credits of master's degree may be transferred to a doctoral program. Any credits counted from an M.S. degree program must have been earned within the previous seven years (or by petition). The Graduate Council does not specify the courses required for the Ph.D. degree.

General requirements for the program include

- a clear objective for research
- approval of the student's entire supervisory committee
- an appropriate number of credits of doctoral research

[Click for information on all graduate degrees.](#)

Minor: With the supervisory committee's approval, the student may choose one or more minor fields. Minor work may be completed in any academic unit outside the major, if approved for M.S. or doctoral programs listed in this catalog. The collective grade for courses included in a minor must be "B" (3.00) or higher. If one minor is chosen, the supervisory committee member representing the minor suggests 12 to 24 credits of courses numbered 5000 or higher as preparation for a qualifying examination. Part of this credit may have been earned in the M.S. degree program. If two minors are chosen, each must include at least 8 credits. Competence in the minor area is demonstrated by written examination by the minor academic unit, or by the oral qualifying examination. Minor course work at the doctoral level may include courses in more than one academic unit; if the objective of the minor is clearly stated and the combination of courses is approved by the Graduate School (this approval is not required for a minor in one academic unit). Further requirements for the Master of Science and the Doctor of Philosophy degrees are listed under those headings in the General Information section of this catalog.

Degrees Offered with a Major in Horticultural Sciences

Doctor of Philosophy

without a concentration

concentration in Environmental Horticulture

concentration in Horticultural Sciences

concentration in Toxicology

Master of Science

without a concentration

concentration in Environmental Horticulture

concentration in Horticultural Sciences

Horticultural Sciences Program Courses

- ALS 6935: Topics in Biological Invasions
- BCH 5045: Graduate Survey of Biochemistry
- BOT 6935: Special Topics
- HOS 6934: Professional Seminar Preparation
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

Additional Course Offerings

The following courses may be taken to contribute to the overall degree award requirements.

Horticultural Sciences Departmental Courses

- ALS 5934: Graduate Professional Development Seminar
- HOS 5085C: Principles of Postharvest Horticulture
- HOS 5115C: Horticultural Plant Morphology and Identification
- HOS 5242: Genetics & Breeding of Vegetable Crops
- HOS 5306: Molecular Biology of Plant Hormones
- HOS 5330: Postharvest Technologies for Horticultural Crops
- HOS 5432: Advanced Nutritional Management of Ornamental Crops
- HOS 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding
- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6545: Advanced Citriculture I
- HOS 6546: Advanced Citriculture II
- HOS 6905: Problems in Horticultural Science
- HOS 6910: Supervised Research
- HOS 6931: Horticultural Science Seminar
- HOS 6932: Special Topics
- HOS 6940: Supervised Teaching
- HOS 6941: Practicum in Horticultural Science
- HOS 6971: Research for Master's Thesis
- HOS 7979: Advanced Research
- HOS 7980: Research for Doctoral Dissertation

- ORH 5026C: Advanced Annual and Perennial Gardening
- ORH 5086: Advanced Golf and Sports Turf Management
- ORH 5282: Orchid Biology and Culture
- ORH 5322C: Palm Biology and Culture
- ORH 5817C: Advanced Florida Native Landscaping
- ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Microbiology and Cell Science Department

Chair: E. Triplett.

Graduate Coordinator: Tony Romeo.

Complete faculty listing by department: [Follow this link.](#)

Graduate study is offered leading to the Master of Science and Doctor of Philosophy degrees in microbiology and cell science, with emphasis in one or more of the disciplines of biochemistry, cell biology, and microbiology.

Requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog and also at the Department webpage: <http://microcell.ufl.edu/>.

Instruction and guidance are collaborative among faculty in the Colleges of Agricultural and Life Sciences, Liberal Arts and Sciences, and Medicine.

Research spans broad areas in the cellular and molecular aspects of bacterial, plant, and animal life functions: Areas of research include microbial biochemistry, biotechnology; biomass conversion; genetic and metabolic regulation; environmental microbiology; cell biology; molecular biology; molecular genetics; genomics and bioinformatics; immunology; virology; parasitology, host-pathogen interactions; cellular ultrastructure.

Prerequisites for admission to graduate study, in addition to those of the Graduate School, are a broad educational background including mathematics, physics, and chemistry through organic, analytical, and physical chemistry; basic courses in biology, botany, and/or zoology; and at least one course in microbiology and biochemistry. An undergraduate major in biochemistry,

physical or chemical science, engineering, or general biology may be an acceptable alternative to a degree in microbiology or cell science. Receipt of an advanced degree requires detailed knowledge in microbiology, biochemistry, and chemistry; undergraduate deficiencies may necessitate additional course work prior to entry into the graduate program.

In addition, the Microbiology and Cell Science Department also offers a combined B.S./M.S. program that allows qualified students to earn both the Bachelor's and Master's degrees with 12 credit hours of jointly counted course work. This program is considered a "4/1" because students may be awarded both degrees within a five-year period. For further information on this program, follow this link: <http://microcell.ufl.edu/graduate-program/combined-degree-program/>.

Other

Microbiology and Cell Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Microbiology and Cell Science Department](#)

Degrees Offered with a Major in Microbiology and Cell Science

Doctor of Philosophy

without a concentration

concentration in Medical Microbiology and Biochemistry

concentration in Toxicology

Master of Science

without a concentration

concentration in Medical Microbiology and Biochemistry

Courses

- MCB 5205: Microbiology of Human Pathogens
- MCB 5252: Microbiology, Immunology, and Immunotherapeutics
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 5408: Anaerobic Microbiology and Biotechnology
- MCB 5458: Energy Transformation in Microorganisms
- MCB 5505: General Virology
- MCB 6317: Molecular Biology of Gene Expression
- MCB 6318: Comparative Microbial Genomics
- MCB 6355: Microbial/Host Defense
 - MCB 6358
- MCB 6409: Microbial Cell Structure and Function
- MCB 6417: Microbial Metabolism and Energetics

- MCB 6457: Metabolic Regulation
- MCB 6465: Microbial Metabolic Engineering
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- MCB 6772: Advanced Topics in Cell Biology
- MCB 6905: Experimental Microbiology
- MCB 6910: Supervised Research
- MCB 6930: Seminar
- MCB 6937: Special Topics in Microbiology
- MCB 6940: Supervised Teaching
- MCB 6971: Research for Master's Thesis
 - MCB 6xxx
- MCB 7922: Journal Colloquy
- MCB 7979: Advanced Research
- MCB 7980: Research for Doctoral Dissertation
- PCB 5136L: Techniques in Microbial and Cell Biology
- PCB 5235: Immunology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Complete faculty listing by department: [Follow this link](#).

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Other

Plant Molecular and Cellular Biology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Plant Molecular and Cellular Biology Department](#)

Plant Molecular and Cellular Biology Program Information

Director: Gloria A. Moore

Graduate Coordinator: Matias Kirst

Plant Molecular and Cellular Biology (PMCB) is an interdisciplinary and interdepartmental graduate degree program that emphasizes understanding the molecular and cellular mechanisms that mediate plant development, adaptation, and evolution. Students can pursue an M.S. or a Ph.D. degree through the PMCB program. All students complete core courses in Advanced Genetics, Plant Molecular Biology and Genomics, Plant Cellular and Developmental Biology, and Plant Biochemistry. In addition to the core classes, students can select from a variety of courses in biochemistry, molecular biology, physiology, breeding genetics, evolution, microbiology, and plant pathology.

New students are exposed to a variety of faculty and experimental systems while they rotate through several laboratories during their first two semesters before selecting an adviser and dissertation research area. Both M.S. and Ph.D. students take four required courses: [PCB 5065](#) Advanced Genetics, [PCB 5530](#) Plant Molecular Biology and Genomics, [PCB 6528](#) Plant Cell and Developmental Biology and [BOT 6935](#) Plant Biochemistry, as well as journal colloquium classes ([PCB 7922](#) Journal Colloquium). Additional elective courses are taken after approval by the student's supervisory committee. For additional information see <http://pmcb.ifas.ufl.edu>.

Successful candidates should have a strong interest in plant molecular and cellular mechanisms controlling development, metabolism, adaptation, and evolution. Applicants typically have a B.S. or M.S. in the agricultural, forestry, biological or chemical sciences with advanced undergraduate coursework in genetics, molecular and cellular biology, and biochemistry. However, outstanding students from a broad range of science disciplines are actively considered.

Degrees Offered with a Major in Plant Molecular and Cellular Biology

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Molecular and Cellular Biology Courses

- BOT 6935: Special Topics
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6910: Supervised Research
- PCB 6937: Special Topics in Plant Molecular and Cellular Biology
- PCB 6971: Research for Master's Thesis
- PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Pathology Department

Chair: R. Loria

Graduate Coordinators: J. Jones

Complete faculty listing by department: [Follow this link.](#)

The Department of Plant Pathology offers graduate studies leading to the Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees. The Department also participates in the Doctor of Plant Medicine interdisciplinary professional degree.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Plant Pathology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Plant Pathology Department](#)

Plant Pathology Program Information

A student may pursue studies in one of several basic areas of plant pathology. These areas include fungal plant pathology, plant bacteriology, plant virology, diagnostics, control, and also molecular and biochemical aspects of host-pathogen systems, biological control of pathogens and weeds, epidemiology, etiology, genetics of host-pathogen systems, soil microbiology, and pathogen taxonomy. In Florida, the variety of cultivated plants, coupled with an environment ideal for plant disease development, offers the student opportunities to study diseases of many crops as they develop. First-hand knowledge can be gained of diseases of field, fruit, ornamental, pasture, range, turf, and vegetable crops in temperate, subtropical, and tropical environments. Students who anticipate study in plant pathology at the University of Florida should include in their undergraduate programs training in botany, chemistry (through biochemistry), genetics, and microbiology.

Courses in nematology are offered by the Department of Entomology and Nematology.

Degrees Offered with a Major in Plant Pathology

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Pathology Departmental Courses

- PLP 5005C: General Plant Pathology
- PLP 5102: Theory and Practice of Plant Disease Control
- PLP 5115C: Citrus Pathology
- PLP 5155: Microbiological Control of Plant Diseases and Weeds
- PLP 6656C: Fungal Biology
- PLP 6223C: Viral Pathogens of Plants
- PLP 6241C: Bacterial Plant Pathogens
- PLP 6262C: Fungal Plant Pathogens
- PLP 6291: Plant Disease Diagnosis
- PLP 6303: Host-Parasite Interactions II
- PLP 6404: Epidemiology of Plant Disease

- PLP 6502: Host-Parasite Interactions I
- PLP 6621C: Pop Genetics Microbes
- PLP 6905: Problems in Plant Pathology
- PLP 6910: Supervised Research
- PLP 6921: Colloquium in Principles of Plant Pathology
- PLP 6932: Seminar in Plant Pathology
- PLP 6940: Supervised Teaching
- PLP 6942: Professional Internship in Plant Disease Clinic
- PLP 6971: Research for Master's Thesis
- PLP 7946: Plant Pathology Internship
- PLP 7979: Advanced Research
- PLP 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

School of Forest Resources and Conservation

[College of Agricultural and Life Sciences](#)

Director: T. L. White.

Graduate Coordinator: T.V. Stein

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Joint program: Students may simultaneously earn a juris doctorate from the College of Law and a graduate degree (M.F.R.C., M.S., or Ph.D.) in Forest Resources and Conservation.

Combined programs: The School offers a combined bachelor's/master's degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings of 1 semester. Ph.D. students may pursue a co-major with the Department of Statistics (see below).

Concentration in geomatics: Students completing 15 or more credits with an SUR designation, as part of an SFRC graduate degree, may earn the concentration in geomatics. Geomatics is the collection, analysis, and management of spatial information and includes such fields as surveying, mapping, land tenure, cadastral systems, geographic information systems, and remote sensing.

Concentration in ecological restoration: This concentration is available to M.S. non-thesis students. To earn this concentration a student must complete Ecosystem Restoration Principles and Practice and four of the following courses: Ecological Distribution and Management of Invasive Plants, Ecology and Restoration of Invaded Ecosystems, Ecology and Restoration of Longleaf Pine Ecosystem, Watershed Restoration and Management, Natural Resource Policy and Administration, or Agroforestry in the Southeastern US. Ecological restoration seeks to return ecosystems to a close approximation of condition before a disturbance.

Statistics co-major: Ph.D. students with the School may elect the co-major offered jointly with the Department of Statistics. Students focusing on forest genetics, tree improvement, and other statistics-intensive aspects of natural resource management are potential candidates for this option.

Certificates: The School administers the Graduate Certificate in Agroforestry, and SFRC students regularly earn certificates in Geographic Information Systems and in Environmental Education and Communication. Requirements are described under *Interdisciplinary Graduate Certificates and Concentrations* in this catalog.

For additional information, please visit the School's web page at <http://sfrc.ufl.edu>.

For details on what terms courses will be offered, please visit <http://sfrc.ufl.edu/gradcourses.html>.

Other

Fisheries and Aquatic Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Forest Resources and Conservation](#)**Fisheries and Aquatic Sciences Program**

Director: T. L. White

Graduate Coordinator: William J. Lindberg

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas.

The School's program in Fisheries and Aquatic Sciences leads to the Master of Science, Master of Fisheries and Aquatic Sciences (nonthesis), and Doctor of Philosophy degrees with a program in Fisheries and Aquatic Sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Fisheries and Aquatic Sciences program also offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

The School of Forest Resources and Conservation's program in Fisheries and Aquatic Sciences conducts research, teaching, and extension programs in four broad areas:

- Sustainable fisheries
- Aquaculture
- Aquatic animal health
- Conservation and management of aquatic environments

Faculty encompass both freshwater and marine environments, as well as managed aquaculture systems. Collaborators include the UF College of Veterinary Medicine, National Biological Survey, National Marine Fisheries Service, Harbor Branch Oceanographic Institute, Mote Marine Laboratory, the US Geologic Survey, the Florida Fish and Wildlife Conservation Commission, and others. Academic programs are structured to emphasize direct engagement of students with faculty. Further information, including specific degree options, faculty biographies, and information on the admissions process, is available at: <http://sfrc.ufl.edu>.

Degrees Offered with a Major in Fisheries and Aquatic Sciences**Doctor of Philosophy**

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

Master of Fisheries and Aquatic Sciences

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycoecology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research

- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Forest Resources and Conservation

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Forest Resources and Conservation](#)

Forest Resources and Conservation Program Information

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and

recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas.

The SFRC offers graduate programs leading to the Master of Forest Resources and Conservation (professional, non-thesis), Master of Science (thesis and non-thesis), and Doctor of Philosophy degrees in Forest Resources and Conservation. The Master of Science non-thesis degree may be taken entirely online. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

The Forest Resources and Conservation program prepares students to work with the ecological, economic, and social aspects of natural resources, including the management of spatial information gathered through traditional surveying as well as remote sensing. Faculty have a wide variety of specializations, including fire ecology, land tenure, tree genetics, recreation management, environmental education, geographic information systems, silviculture, forest economics, and environmental policy. Further information, including specific degree options, faculty biographies, and information on the admissions process, is available at: <http://sfrc.ufl.edu>.

Degrees Offered with a Major in Forest Resources and Conservation

Doctor of Philosophy

without a concentration

concentration in Agroforestry

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Hydrologic Sciences

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Toxicology

concentration in Wetland Sciences

Master of Forest Resources and Conservation

without a concentration

concentration in Agroforestry

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Agroforestry

concentration in Ecological Restoration

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Hydrologic Sciences

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism

- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

School of Natural Resources and Environment

Graduate coordinator: T. Frazer

Complete faculty listing by department: [Follow this link.](#)

The University of Florida School of Natural Resources and Environment offers interdisciplinary coursework in the basic and applied science of ecology, the related social sciences, and sustainability, leading to M.S. and Ph.D. degrees. Choose from about 450 courses, 280 faculty advisors, and 44 participating departments. Research areas of ecology graduate students range across natural resource ecology, environmental policy and management, and sustainable development.

Environmental problems are fundamentally human problems and should be understood in terms of human motivations and actions in a biophysical context. Their solution requires holistic thinking about dynamic ecological systems and the social, economic, and political forces driving human action. To this end, the goal of the Interdisciplinary Ecology graduate program is to provide advanced training in ecosystems thinking and the main theories and methodologies of the biophysical and social sciences to foster integrative approaches to complex real-world problems. Interdisciplinary Ecology students are intensely interested in the sustainability problem, and they welcome the challenge of addressing it through more than one traditional discipline.

Other

Interdisciplinary Ecology

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Natural Resources and Environment](#)

Interdisciplinary Ecology Program

Director of Academic Programs and Graduate Coordinator: T. Frazer

Graduate students are advised by one of the 280 members of the School's affiliate faculty and have a supervisory committee with interdisciplinary composition. For the list of Graduate Faculty, see <http://sfrc.ufl.edu/fish/people/>. Graduate students are hosted in one of 44 participating academic units.

The School offers a program of study leading to the Master of Science (thesis and non-thesis options), and Doctor of Philosophy degrees in interdisciplinary ecology. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. The course work requirements and curriculum are described in more detail at <http://www.snre.ufl.edu/>. Choices among 450 courses are custom-fitted by the student and the supervisory committee to meet the student's specific needs and interests.

The Interdisciplinary Ecology program views the social-ecological system as the proper framework for addressing the full scope of complex, adaptive systems comprising humans in the natural world. The degree program challenges students to understand both natural and human dynamics to obtain a holistic view and to foster integration of human activities with natural resources and the environment. The learning outcomes of the program are to develop a thorough understanding of the components, processes, and interactions of the social-ecological system, competence in scientific research methodologies, and experience in professional interaction with peers.

The degree programs combine 1) course work in the science of ecology and additional natural and social sciences; and 2) competence in a recognized discipline in one of these fields of study. The former is achieved with a core-course and distribution requirement and the latter by extra course work for the master's and a concentration for the doctoral degree. A thesis or dissertation provides first-hand experience creating scientific knowledge. The non-thesis master's option provides rapid, advanced preparation for the job market in 3 to 4 semesters, without research experience. Course requirements are 36 semester hours for the thesis option, 38 hours for the non-thesis option, and 60 hours beyond the master's degree for the doctoral degree.

Degrees Offered with a Major in Interdisciplinary Ecology

Doctor of Philosophy

without a concentration

concentration in Agricultural and Biological Engineering

concentration in Agricultural Education and Communication

concentration in Agronomy

concentration in Anthropology

concentration in Architecture

concentration in Biochemistry and Molecular Biology

concentration in Botany

concentration in Business Administration

concentration in Chemistry

concentration in Civil Engineering

concentration in Climate Science

concentration in Coastal and Oceanographic Engineering

concentration in Economics

concentration in English

concentration in Entomology and Nematology

concentration in Environmental Engineering Sciences

concentration in Family, Youth and Community Sciences

concentration in Farming Systems

concentration in Fisheries and Aquatic Sciences

concentration in Food and Resource Economics

concentration in Food Science

concentration in Forest Resources and Conservation

concentration in Foundations of Education

concentration in Geographic Information Systems

concentration in Geography

concentration in Geology

concentration in Health and Human Performance

concentration in Horticultural Sciences

concentration in Hydrologic Sciences

concentration in Landscape Architecture

concentration in Mathematics

concentration in Microbiology and Cell Science

concentration in Nuclear and Radiological Engineering

concentration in Philosophy

concentration in Political Science

concentration in Religion

concentration in Sociology

concentration in Soil and Water Science

concentration in Statistics

concentration in Tropical Conservation and Development

concentration in Urban and Regional Planning

concentration in Veterinary Medical Sciences

concentration in Wetland Sciences

concentration in Wildlife Ecology And Conservation

concentration in Women's/Gender Studies

concentration in Zoology

Master of Science

without a concentration

concentration in Agricultural and Biological Engineering

concentration in Agricultural Education and Communication

concentration in Agronomy

concentration in Anthropology

concentration in Architecture

concentration in Biochemistry and Molecular Biology

concentration in Botany

concentration in Business Administration

concentration in Chemistry

concentration in Civil Engineering

concentration in Climate Science

concentration in Coastal and Oceanographic Engineering

concentration in Economics

concentration in English

concentration in Entomology and Nematology

concentration in Environmental Engineering Sciences

concentration in Family, Youth and Community Sciences

concentration in Farming Systems

concentration in Fisheries and Aquatic Sciences

concentration in Food and Resource Economics

concentration in Food Science

concentration in Forest Resources and Conservation

concentration in Foundations of Education

concentration in Geographic Information Systems

concentration in Geography

concentration in Geology

concentration in Health and Human Performance

concentration in Horticultural Sciences

concentration in Hydrologic Sciences

concentration in Landscape Architecture

concentration in Mathematics

concentration in Microbiology and Cell Science

concentration in Nuclear and Radiological Engineering

concentration in Philosophy

concentration in Political Science

concentration in Religion

concentration in Sociology

concentration in Soil and Water Science

concentration in Statistics

concentration in Tropical Conservation and Development

concentration in Urban and Regional Planning

concentration in Veterinary Medical Sciences

concentration in Wetland Sciences

concentration in Wildlife Ecology And Conservation

concentration in Women's/Gender Studies

concentration in Zoology

Courses

- www.snrc.ufl.edu/graduate/curriculum.htm
- EVR 5322: Scientific Processes in Conservation and Development
- EVR 5705: Natural Resources and Innovation Systems
- EVR 6320: Sustainable Natural Resource Management
- EVR 6933: Seminar
- EVR 6934: Internship
- EVR 6979: Nonthesis Master's Project
- PCB 6971: Research for Master's Thesis
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics

- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Soil and Water Science Department

Chair: K. Ramesh Reddy

Graduate Coordinator: Max Teplitski

Complete faculty listing by department: [Follow this link.](#)

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The Department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog

Soil and Water are vital resources in urban, agricultural, and natural ecosystems. The Soil and Water Science Department (SWSD) provides highly visible leadership in teaching, research, and extension/outreach programs as related to improving the productivity of agriculture with environmentally sound management practices, improving water quality, and protection and conservation of natural resources. Our department is one of the few in the nation that offers a comprehensive research and educational programs (molecular to landscape level) involving terrestrial, wetlands and aquatic ecosystems of the landscape. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place-bound students. Our graduates and postdoctoral fellows are well placed at universities, state and federal agencies, and private industry.

The SWSD programs are designed to meet the changing needs of our clientele at state, national and international levels. To meet new challenges and explore new opportunities, the SWSD's research, teaching, and extension programs are focused in five areas, with broader implication to water quality, carbon sequestration, greenhouse gases, and climate change:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

The Department offers graduate level certificates in Biodegradation and Remediation, Sustainable Land Resource and Nutrient Management, Soil Ecosystem Services, and Wetland and Water Resource Management for both on-campus students and via distance education for place bound students (<http://soils.ifas.ufl.edu/academics/degree-certificates.shtml>).

An additional option offered by the Department is a combined bachelor's/master's degree program that permits a B.S in Soil and Water Science or Interdisciplinary Studies – Environmental Management in Agriculture and Natural Resources and M.S. Degree to be completed in five years. Contact the graduate coordinator for more information.

For more information, please see the program page below and our website: <http://soils.ifas.ufl.edu>.

Other

Soil and Water Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Soil and Water Science Department](#)

Soil and Water Science Program Information

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog

Students can also develop specializations in several interdisciplinary areas including biogeochemistry, ecology, geographic information systems, hydrologic science, tropical agriculture, turfgrass management, and wetland science. The Department emphasizes (but is not limited to) the following research areas:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

Interests of the student and faculty, the facilities, and funding available will determine the student's research area. A specific program of study is prepared by an appointed supervisory committee for each student. Students will present a thesis or dissertation in their major field (M.S. thesis option and Ph.D.). In addition, Ph.D. candidates must pass a qualifying examination covering several areas of soil and water science and related fields.

Prerequisites: Students who expect to do graduate work in the Soil and Water Science Department should hold a bachelor's degree from an accredited college or university with a major in soil and water science or the equivalent background in another field of science. Graduate students should have backgrounds in biology, chemistry, physics, and mathematics and knowledge of basic soil and water science.

For more information, please see our website: <http://soils.ifas.ufl.edu>.

Degrees Offered with a Major in Soil and Water Science

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Agroecology

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Soil and Water Science Departmental Courses

- ALS 5027: Reusable Learning Objects
- ALS 5155: Global Agroecosystems
- CWR 6537: Contaminant Subsurface Hydrology
- SWS 5050: Soils for Environmental Professionals
- SWS 5050L: Soils for Environmental Professionals Laboratory
- SWS 5115: Environmental Nutrient Management
- SWS 5132: Tropical Soil Management
- SWS 5182: Earth System Analysis
- SWS 5208: Sustainable Agricultural and Urban Land Management
- SWS 5234: Environmental Soil, Water, and Land Use
- SWS 5235: South Florida Ecosystems
- SWS 5224: Environmental Biogeochemistry
- SWS 5246: Water Resource Sustainability
- SWS 5247: Hydric Soils
- SWS 5248: Wetlands and Water Quality
- SWS 5305C: Soil Microbial Ecology
- SWS 5308: Ecology of Waterborne Pathogens
- SWS 5406: Soil and Water Chemistry
- SWS 5424C: Soil Chemical Analysis
- SWS 5551: Soils, Water, and Public Health
- SWS 5605C: Environmental Soil Physics
- SWS 5716C: Environmental Pedology
- SWS 5721C: GIS in Land Resource Management
- SWS 5805: Environmental Soil and Water Monitoring Techniques
- SWS 6134: Soil Quality
- SWS 6136: Soil Fertility
- SWS 6161: Bioavailability of Soil Nutrients
- SWS 6262: Soil Contamination and Remediation
- SWS 6323: Advanced Microbial Ecology
- SWS 6325: Rhizosphere Biochemistry
- SWS 6366: Biodegradation and Bioremediation
- SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6722: Soil-Landscape Modeling
- SWS 6905: Special Problems
- SWS 6910: Supervised Research
- SWS 6931: Seminar
- SWS 6932: Topics in Soils
- SWS 6940: Supervised Teaching
- SWS 6971: Research for Master's Thesis
- SWS 7979: Advanced Research
- SWS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Wildlife Ecology and Conservation Department

[College of Agricultural and Life Sciences](#)

Chair: Eric C. Hellgren

Graduate Coordinator: Kathryn E. Sieving

Complete faculty listing by department: [Follow this link.](#)

The Department of Wildlife Ecology and Conservation offers Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees in wildlife ecology and conservation. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Program emphases include wildlife biology, ecology, and management; landscape ecology and restoration; human dimensions; tropical and international conservation; and conservation education. Graduate students should have appropriate undergraduate training in the biological, social, and physical sciences including physics, chemistry, and mathematics. Students with inadequate backgrounds may be required to take (without credit at the graduate level) remedial undergraduate courses pertinent to their fields of interest.

For more information, please see our website: <http://www.wec.ufl.edu>.

Other

Wildlife Ecology and Conservation

College

[College of Agricultural and Life Sciences](#)

Department/School

[Wildlife Ecology and Conservation Department](#)

Wildlife Ecology and Conservation Program

The Department of Wildlife Ecology and Conservation offers a breadth of graduate programs that are designed to prepare students for professional employment in conservation of natural resources in a changing world. WEC faculty teach, conduct research, and provide service and extension in the following areas: avian ecology, behavioral ecology, community ecology, conservation biology, conservation education, conservation genetics, ecosystem management, environmental interpretation, habitat restoration, herpetofaunal ecology, human dimensions of wildlife management, international conservation, introduced species, landscape ecology, mammalian behavior, marine mammal ecology, plant ecology, population biology, range ecology, systems ecology, tropical conservation, urban wildlife relations, wetlands ecology, wildlife diseases, and wildlife management.

The **Doctor of Philosophy (PhD) program** in Wildlife Ecology and Conservation serves graduate students conducting advanced, original studies of fundamental ecological and social sciences (e.g., ecosystem, community, landscape ecology, human dimensions), usually with applications to further society's understanding of wildlife ecology and to improve conservation of wildlife resources.

The **Master of Science (MS) thesis program** in Wildlife Ecology and Conservation: (a) prepares graduate students for entry-level professional positions in areas of wildlife biology and ecology, natural resource management, conservation, and (b) provides a solid scientific foundation for further graduate work leading to the PhD degree.

The **Master of Science, non-thesis (MS) program** in Wildlife Ecology and Conservation provides advanced training for students in technical and professional aspects of wildlife management, conservation, and public education, emphasizing written and oral communication of scientific information.

For more information, please see our website: <http://www.wec.ufl.edu>.

Degrees Offered with a Major in Wildlife Ecology and Conservation

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- WIS 5323C: Impact of Diseases on Wildlife Population
 - WIS 5376
- WIS 5496: Research Design in Wildlife Ecology
- WIS 5521: Plant-Animal Interactions
- WIS 5555C: Conservation Biology
- WIS 6444: Advanced Wetlands Ecology
- WIS 6455: Wildlife Population Ecology
- WIS 6466: Wildlife Population Modeling
- WIS 6468C: Pattern and Process in Landscape Ecology
- WIS 6525: Environmental Interpretation
- WIS 6544: Administration in Natural Resources
- WIS 6575: Mammalian Carnivores: Conservation and Management Issues
- WIS 6578: Human Dimensions of Biological Conservation
- WIS 6905: Research Problems in Wildlife and Range Sciences
- WIS 6910: Supervised Research
- WIS 6933: Seminar
- WIS 6934: Topics in Wildlife and Range Sciences
- WIS 6940: Supervised Teaching
- WIS 6971: Research for Master's Thesis
- WIS 6543: Wildlife and Agriculture
- WIS 7979: Advanced Research
- WIS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

School of Art and Art History

[College of the Arts](#)

Director: Richard C. Heipp
Graduate Coordinator: Patrick Grigsby

Complete faculty listing: [Follow this link.](#)

The School of Art and Art History offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. The school also offers Master of Arts degrees in art education, art history, and museology (museum studies) and the Doctor of Philosophy degree in art history. Requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog, and information about each of these graduate programs can be found at the links below.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/art>

Other

Art

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art Program

Master of Fine Arts degree: The school offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. Enrollment is competitive and limited. Candidates for admission should have adequate undergraduate training in art. Deficiencies may be corrected before beginning graduate study. Applicants must submit a portfolio for admission consideration (for comprehensive admission information: <http://www.arts.ufl.edu/programs/grad.aspx>). A minimum of 3 years residency is normally needed to complete the requirements for this degree, which for studio students culminates with an M.F.A. exhibition.

The M.F.A. requires a minimum of 60 credit hours: 24 hours must be in an area of specialization. Normal course requirements include:

- 12 hours of studio electives outside the area of specialization
- 6 hours of art history electives
- 3 hours of outside SA+AH electives (research/discipline appropriate)
- 6 hours of electives
- 6 hours of individual project or thesis research.

Although the M.F.A. is a thesis degree, students usually produce a creative project in lieu of thesis. Students should see the graduate program adviser for the School's requirements for the creative project.

Degrees Offered with a Major in Art

Master of Fine Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution

- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Art Education

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art Education Program

Master of Arts degree in Art Education: The School offers the M.A. in art education. In addition to meeting requirements of the Graduate School for admission, prospective students should:

- Hold a degree in studio art, art history, design, or art education
- Send up to 10 images of original works of art (on CD or in slide form) and a research paper, article, or other sample of academic writing
- Official transcripts from all colleges/universities previously attended
- Statement of professional goals for attending graduate school and earning an M.A. degree in art education
- Current Curriculum Vitae or Resume
- Submit three current letters of recommendation.

The M.A. in art education requires a minimum of 36 credit hours. [ARE 6049](#), [ARE 6148](#), and [ARE 6641](#) are required. The basic plan of study includes 3 credits of an approved art education elective; 9 credits in studio courses; 3 credits in art history; 6 credits in art history, studio, art education, or education electives; 3 credits of [ARE 6746](#); and 3 credits of [ARE 6971](#) or [ARE 6973](#). To be admitted to candidacy, students must pass a comprehensive examination at the beginning of the second year. The program culminates in an oral examination on the thesis or project in lieu of thesis.

Degrees Offered with a Major in Art Education

Master of Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar

- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Art History

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art History Program

Master of Arts and Doctor of Philosophy degrees in Art History: The School offers graduate programs leading to the M.A. and Ph.D. degrees. For complete details of the M.A. and Ph.D. degree requirements, see the Director of Graduate Studies—Art History. Art History students may participate in courses offered by the State University System's programs in Paris, London, and Florence. Other study-abroad programs may be approved by the director of graduate studies.

For the M.A. degree, the School offers areas of emphasis in Ancient, Medieval, Renaissance/Baroque, Modern, and non-Western art history (including African, Asian, and Oceanic). A minimum of 36 credit hours is required: [ARH 5816](#) (3 credits), 27 hours of course work, and [ARH 6971](#) (6 credits). Required course work includes a minimum of 15 hours with 5 different art history Graduate Faculty (at least 12 hours of this course work must be graduate-level seminars). Nine credits may be taken in related areas with the graduate program adviser's approval. Reading proficiency in a foreign language appropriate to the major area of study must be demonstrated before thesis research is begun. Language courses cannot apply toward degree credit.

For the Ph.D. degree, the School offers the same areas of specialization as for the M.A. degree. Up to 30 credits from the M.A. degree may apply toward the 90 credit Ph.D. degree. A program of 60 credit hours beyond the M.A. degree is required. Core courses will consist of a minimum of 30 hours in art history:

- 18 hours in a primary area (5000-level or above)
- 9 hours in a secondary area (5000-level or above)
- 3 hours of theory/methodology of art history (if [ARH 5816](#) or its equivalent has not been taken as part of the M.A.)
- An additional 12 hours of outside electives taken in other schools or departments are required in a discipline(s) related to the primary area of study
- Finally, 27 hours of dissertation research and writing is required.

By the end of the second semester or equivalent full-time study, students should form their supervisory committee that must include a minimum of four Graduate Faculty members; one of whom must agree to serve as primary dissertation adviser and supervisory committee chair. The supervisory committee will also act as the qualifying examination committee. Normally students will take the qualifying examination during the spring term of the third year in residence. The examination is both written and oral. It will cover the major and minor art history areas of emphasis as well as the student's preliminary formulation of a dissertation topic and provisional statement of the approaches to that topic as expressed in the dissertation prospectus. On successful completion of the qualifying examination, the approval by the supervisory committee of the dissertation prospectus, and fulfilling all other course and language requirements, the student makes formal application for a change of status to Ph.D. candidacy. Normally, a student will be expected to present the completed dissertation and defend it at an oral defense conducted by the supervisory committee by the end of the sixth year in the program. For Ph.D. students, reading knowledge of two research languages other than English must be demonstrated by the end of the second year of course work, or by the end of the first semester in the case of transfer students. Language courses are not applicable toward degree credit.

Degrees Offered with a Major in Art History

Doctor of Philosophy

Master of Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar

- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Museology

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Museology Program Information

Master of Arts degree in Museology (Museum Studies): The School offers this interdisciplinary program that consists of both academic and practical work. The curriculum allows students to do graduate work in a disciplinary emphasis (art history, anthropology, history, education, or the natural sciences, for example) and at the same time complete a concentrated study in professional museum practice. The M.A. degree in museology requires 48 credit hours including:

- 15 credits of museum studies courses (museology seminar, 3 credits; collections management, 3 credits; museum education, 3 credits; exhibitions, 3 credits; special topics, 3 credits)
- 15 graduate credits in a disciplinary focus
- 6 credits of internship
- 6 credits of electives
- 6 credits of individual credit.

Several on-campus sites provide the program with laboratories for training students in museum work, including the University Galleries, Harn Museum of Art, Florida Museum of Natural History, and the gallery at the Reitz Union. Students must complete a 6-credit internship of at least 320 hours at an approved museum. In this experience, students undertake specific projects in which they gain first-hand experience in museum work. The Harn Museum of Art or the Florida Museum of Natural History may be able to oversee a few interns, but students are encouraged to apply for internships at other U.S. institutions or abroad.

A project-in-lieu-of-thesis (or thesis) is selected, researched, and carried out under the direction of a supervisory committee.

Degrees Offered with a Major in Museology

Master of Arts

concentration in Historic Preservation

without a concentration

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890

- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Digital Worlds Institute

[College of the Arts](#)

Director: James C. Oliverio

Graduate Coordinator: Marko Suvajdzic

Complete faculty listing: [Follow this link.](#)

The Digital Worlds Institute exists to nurture leading edge education between the arts, communications, engineering and the sciences, utilizing advanced media systems and digital culture. By bringing together the diverse talents of University of Florida faculty, students, and staff in a multifaceted collaborative environment, the Institute serves as a platform for interdisciplinary

research and teaching that would not have occurred within the confines of any one college or department. Through the use of interactive tools and technologies, the Institute promotes transdisciplinary creativity across classrooms, continents and cultures.

For more information, please see the program page below and our website: <http://www.digitalworlds.ufl.edu>.

Other

Digital Arts and Sciences (Arts)

College

[College of the Arts](#)

Department/School

[Digital Worlds Institute](#)

Digital Arts and Sciences (Arts) Program Information

The Master of Arts in Digital Arts & Sciences (DAS) degree seeks to allow students from diverse academic backgrounds the opportunity to develop fluency in the technologies, design practices and collaborative interdisciplinary teamwork increasingly required by the media, communications and entertainment industries. Graduates holding the M.A. in DAS degree would typically seek employment in the creative services sector, applying digital techniques and technologies in a variety of professions. Opportunities range from traditional cinema to interactive games; from broadcast media to online international networks to emergent industries.

Although this is a thesis degree, students usually produce a creative project in lieu of thesis. Students should see the graduate coordinator for the requirements for the creative project, which are also provided in the DAS Student Handbook.

Students seeking admission are expected to have an undergraduate background including:

- A degree in one of the fine arts or liberal arts
- A body of work that demonstrates accomplishment in the intended area
- A body of work that can clearly be enhanced with skills to be acquired in the DAS program.

Deficiencies may be corrected before beginning graduate study. In addition to appropriate academic credentials and prior scholastic achievement, admission into the program requires a well-constructed Statement of Purpose and media-related support material (i.e. samples of design, programming, video, web, writing, etc.) that demonstrates both prior interest and/or achievement in New Media/Digital Arts & Sciences.

Degrees Offered with a Major in Digital Arts and Sciences

Master of Arts

Digital Worlds Departmental Courses

- DIG 5555C: Digital Media Projection Design I
- DIG 5931C: Special Topics
- DIG 6027C: Interactive Storytelling
- DIG 6028: Roots of Digital Culture
- DIG 6050C: Entertainment Technology
- DIG 6125C: Digital Design & Visualization
- DIG 6126C: Interaction Design
- DIG 6256C: Audio Design For Digital Production
- DIG 6358C: APPLIED 3D MODELING
- DIG 6556C: Digital Media Projection Design II
- DIG 6589C: Digital Portfolio
- DIG 6719: Videogame Theory and Analysis
- DIG 6744C: Movement, Media and Machines
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- DIG 6751C: Protocols for Multimedia Interfaces
- DIG 6788C: Digital Production & Game Design

- DIG 6840C: Interdisciplinary Research Seminar in Digital Arts & Sciences
- DIG 6850C: Digital Arts & Sciences Convergence
- DIG 6906: Independent Study - Graduate Level
- DIG 6950C: Digital Performance Production
- DIG 6971: Research for Master's Thesis
- DIG 6973: Capstone Project in Lieu of Thesis
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Music Department

[College of the Arts](#)

Director: J. A. Duff.

Graduate Coordinator: L. S. Odom.

Complete faculty listing by department: [Follow this link.](#)

The School of Music offers programs leading to the Master of Music degree in music and music education. Program concentrations in music include choral conducting, composition, instrumental conducting, musicology, ethnomusicology, music theory, performance, and sacred music. In addition, the School of Music offers the Doctor of Philosophy degree in music and in music education.

The Ph.D. program in music education emphasizes college music teaching. The Ph.D. program in music includes concentrations in:

- Music history and literature, with options in traditional musicology and ethnomusicology
- Composition, with options in acoustic and electroacoustic specialization

All Ph.D. students are encouraged to find opportunities to teach and lecture in their specializations; and with the assistance of their principal professors, to prepare papers, workshops, and clinics for presentation at professional conferences, in the public schools, and at colleges and universities. Students also are encouraged to publish their research in appropriate journals. Minimum requirements for the M.M. and Ph.D. degrees are given in the General Information section of this catalog. The week before classes begin, students must take placement examinations in music history and in music theory. Students wanting to study privately in a performance studio must be auditioned and accepted by the appropriate area faculty. Voice students must demonstrate appropriate skills in language and diction. All deficiencies must be remedied.

For more information, please see the program pages below and our website: <http://www.arts.ufl.edu/welcome/music>.

Other

Music

College

[College of the Arts](#)

Department/School

[Music Department](#)

Music Program Information

The Master of Music (M.M.) degree is offered in music or music education. The music program offers the following concentrations: choral conducting, composition, electronic music, ethnomusicology, instrumental conducting, music education, music history and literature, music theory, performance, and sacred music. The M.M. degree prepares students for careers as teachers in studios, schools, and universities; performers; music historians; music critics; church musicians; composers; conductors; and accompanists.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/music>

Degrees Offered with a Major in Music

Doctor of Philosophy

without a concentration

concentration in Composition

concentration in Music History and Literature

Master of Music

without a concentration

concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Electronic Music

optional second concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Ethnomusicology

concentration in Ethnomusicology

optional second concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Electronic Music

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

concentration in Instrumental Conducting

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music Education

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music History and Literature

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music Theory

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Performance

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Sacred Music

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Music Departmental Courses

- DIG 6288: Music and Sound Design for Digital Media
- MUC 5315: Introduction to Electroacoustic Music
- MUC 6444: Composition of Electronic Music
- MUC 6445: Electroacoustic Music Composition: Digital I
- MUC 6446: Electroacoustic Music Composition--Digital II
- MUC 6900: Secondary Graduate Composition
- MUC 6930: Graduate Composition
- MUC 6932: Composition Seminar
- MUC 7447: Advanced Seminar in Electroacoustic Music
- MUC 7931: Advanced Graduate Composition
- MUC 7938: Seminar in Digital Sound Processing, Control, and Composition
- MUE 6080: Historical and Philosophical Foundations of Music Education
- MUE 6385: Music in Higher Education
- MUE 6399: Creative Thinking in Music
- MUE 6444: Materials and Methods of String Class Teaching
- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- MUE 6696: Technology Assisted Music Learning
- MUE 6747: Assessing Music Learning
- MUE 6785: Research in Music Education
- MUE 6790: Capstone Project for Music Education
- MUE 6931: Instructional Design in Music Education
- MUE 7746: Measurement and Evaluation of Music
- MUE 7938: Music Education Seminar
- MUG 6105: Graduate Conducting
- MUG 7106: Advanced Graduate Conducting
- MUH 5219: Graduate Music History Review
- MUH 5505: Introduction to Ethnomusicology
- MUH 5684: Introduction to Historical Musicology
- MUH 6526: American Vernacular Music
- MUH 6545: The Guitar in Latin American Culture
- MUH 6548: Seminar in Caribbean Music
- MUH 6549: Seminar in Brazilian Music
- MUH 6635: Seminar in American Music
- MUH 6665: History of Opera
- MUH 6671: Seminar in Renaissance Music
- MUH 6672: Seminar in Baroque Music
- MUH 6673: Seminar in Classical Music
- MUH 6674: Seminar in Nineteenth-Century Music
- MUH 6675: Seminar in Twentieth-Century Music
- MUH 6931: Nationalism in Music
- MUH 6935: Special Topics in Music History
- MUH 7411: Medieval and Renaissance Notation
- MUH 7938: Musicology Seminar
- MUL 6435: String Literature
- MUL 6486: Piano Literature
- MUL 6495: Graduate Organ Literature
- MUL 6555: Survey of Wind Literature
- MUL 6565: Chamber Music Literature
- MUL 6645: Choral Literature
- MUN 6010: Graduate Ensemble
- MUN 6125: Concert Band
- MUN 6135: Symphonic Band
- MUN 6145: Symphonic Wind Ensemble
- MUN 6215: University Orchestra
- MUN 6315: University Choir
- MUN 6325: Women's Chorale
- MUN 6335: Men's Glee Club
- MUN 6445: Percussion Ensemble
- MUN 6495: Steel Drum Ensemble
- MUN 6496: World Music Ensemble
- MUN 6497: New Music Ensemble
- MUN 6715: Jazz Band
- MUR 6206: Survey of Hymnody
- MUR 6705: Sacred Music Literature
- MUS 5911: Directed Study
- MUS 6685: Psychology of Music
- MUS 6716: Methods of Musical Research and Bibliography
- MUS 6905: Projects and Problems
- MUS 6910: Supervised Research
- MUS 6940: Supervised Teaching

- MUS 6971: Research for Master's Thesis
- MUS 6973: Individual Project
- MUS 7656: Teaching Music and the Creative Process
- MUS 7905: Projects and Problems
- MUS 7979: Advanced Research
- MUS 7980: Research for Doctoral Dissertation
- MUT 6051: Graduate Music Theory Review
- MUT 6445: Advanced Counterpoint
- MUT 6531: Figured Bass and Continuo Performance
- MUT 6565: Late Nineteenth- and Twentieth-Century Styles
- MUT 6576: Contemporary Styles
- MUT 6617: Approaches to Theoretical Analysis in Music Education
- MUT 6624: Seminar in Set Theory
- MUT 6627: Seminar in Reductive Analysis
- MUT 6629: Analytical Techniques
- MUT 6751: Pedagogy of Music Theory
- MUT 6936: Music Theory Seminar
- MUT 7316: Advanced Orchestration
- MUT 7585: Seminar in Musical Style
- MUT 7760: History of Music Theory
- MKK 5156: Improvisational Keyboard Skills and Related Technology
- MKK 6605: Organ Pedagogy
- MKK 6651: Piano Pedagogy
- MKK 6661: Advanced Piano Pedagogy
- MO 6250: Secondary Music Performance
- MO 6460: Music Performance
- MO 7460: Music Performance
- MVS 6651: String Pedagogy I
- MV 6651: Vocal Pedagogy

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Music Education

College

[College of the Arts](#)

Department/School

[Music Department](#)

Music Education Program Information

The Master of Music (M.M.) degree is offered in music or music education. The music education program offers the following concentrations: choral conducting, composition, electronic music, ethnomusicology, instrumental conducting, music history and literature, music theory, performance, and piano pedagogy. The M.M. degree prepares students for careers as teachers in studios, schools, and universities; performers; music historians; music critics; church musicians; composers; conductors; and accompanists.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/music>

Degrees Offered with a Major in Music Education

Doctor of Philosophy

Master of Music

Without a Concentration

Concentration in Choral Conducting

optional second concentration in Piano Pedagogy

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Electronic Music

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in Piano Pedagogy

optional second concentration in **Ethnomusicology**

Concentration in Ethnomusicology

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Piano Pedagogy**

Concentration in Instrumental Conducting

optional second concentration in Piano Pedagogy

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Concentration in Music History and Literature

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Composition**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Music Theory

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Piano Pedagogy**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Performance

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in Composition

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Piano Pedagogy

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Music Departmental Courses

- DIG 6288: Music and Sound Design for Digital Media
- MUC 5315: Introduction to Electroacoustic Music
- MUC 6444: Composition of Electronic Music
- MUC 6445: Electroacoustic Music Composition: Digital I
- MUC 6446: Electroacoustic Music Composition--Digital II
- MUC 6900: Secondary Graduate Composition
- MUC 6930: Graduate Composition
- MUC 6932: Composition Seminar
- MUC 7447: Advanced Seminar in Electroacoustic Music
- MUC 7931: Advanced Graduate Composition
- MUC 7938: Seminar in Digital Sound Processing, Control, and Composition
- MUE 6080: Historical and Philosophical Foundations of Music Education
- MUE 6385: Music in Higher Education
- MUE 6399: Creative Thinking in Music
- MUE 6444: Materials and Methods of String Class Teaching
- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- MUE 6696: Technology Assisted Music Learning
- MUE 6747: Assessing Music Learning
- MUE 6785: Research in Music Education
- MUE 6790: Capstone Project for Music Education
- MUE 6931: Instructional Design in Music Education
- MUE 7746: Measurement and Evaluation of Music
- MUE 7938: Music Education Seminar
- MUG 6105: Graduate Conducting
- MUG 7106: Advanced Graduate Conducting
- MUH 5219: Graduate Music History Review
- MUH 5505: Introduction to Ethnomusicology
- MUH 5684: Introduction to Historical Musicology
- MUH 6526: American Vernacular Music
- MUH 6545: The Guitar in Latin American Culture
- MUH 6548: Seminar in Caribbean Music
- MUH 6549: Seminar in Brazilian Music
- MUH 6635: Seminar in American Music
- MUH 6665: History of Opera
- MUH 6671: Seminar in Renaissance Music
- MUH 6672: Seminar in Baroque Music
- MUH 6673: Seminar in Classical Music
- MUH 6674: Seminar in Nineteenth-Century Music
- MUH 6675: Seminar in Twentieth-Century Music
- MUH 6931: Nationalism in Music
- MUH 6935: Special Topics in Music History
- MUH 7411: Medieval and Renaissance Notation
- MUH 7938: Musicology Seminar
- MUL 6435: String Literature
- MUL 6486: Piano Literature
- MUL 6495: Graduate Organ Literature
- MUL 6555: Survey of Wind Literature
- MUL 6565: Chamber Music Literature
- MUL 6645: Choral Literature
- MUN 6010: Graduate Ensemble
- MUN 6125: Concert Band
- MUN 6135: Symphonic Band
- MUN 6145: Symphonic Wind Ensemble

- MUN 6215: University Orchestra
- MUN 6315: University Choir
- MUN 6325: Women's Chorale
- MUN 6335: Men's Glee Club
- MUN 6445: Percussion Ensemble
- MUN 6495: Steel Drum Ensemble
- MUN 6496: World Music Ensemble
- MUN 6497: New Music Ensemble
- MUN 6715: Jazz Band
- MUR 6206: Survey of Hymnody
- MUR 6705: Sacred Music Literature
- MUS 5911: Directed Study
- MUS 6685: Psychology of Music
- MUS 6716: Methods of Musical Research and Bibliography
- MUS 6905: Projects and Problems
- MUS 6910: Supervised Research
- MUS 6940: Supervised Teaching
- MUS 6971: Research for Master's Thesis
- MUS 6973: Individual Project
- MUS 7656: Teaching Music and the Creative Process
- MUS 7905: Projects and Problems
- MUS 7979: Advanced Research
- MUS 7980: Research for Doctoral Dissertation
- MUT 6051: Graduate Music Theory Review
- MUT 6445: Advanced Counterpoint
- MUT 6531: Figured Bass and Continuo Performance
- MUT 6565: Late Nineteenth- and Twentieth-Century Styles
- MUT 6576: Contemporary Styles
- MUT 6617: Approaches to Theoretical Analysis in Music Education
- MUT 6624: Seminar in Set Theory
- MUT 6627: Seminar in Reductive Analysis
- MUT 6629: Analytical Techniques
- MUT 6751: Pedagogy of Music Theory
- MUT 6936: Music Theory Seminar
- MUT 7316: Advanced Orchestration
- MUT 7585: Seminar in Musical Style
- MUT 7760: History of Music Theory
- MKK 5156: Improvisational Keyboard Skills and Related Technology
- MKK 6605: Organ Pedagogy
- MKK 6651: Piano Pedagogy
- MKK 6661: Advanced Piano Pedagogy
- MO 6250: Secondary Music Performance
- MO 6460: Music Performance
- MO 7460: Music Performance
- MVS 6651: String Pedagogy I
- MVV 6651: Vocal Pedagogy

School of Theatre and Dance

Director: J. Dickey

Graduate Performance Program Coordinator: Ralf Remshardt

Graduate Design Program Coordinator: S. Kaye

Complete faculty listing by department: [Follow this link.](#)

The graduate program offered by the School of Theatre and Dance leads to the degree of Master of Fine Arts in Theatre. Minimum requirements for this degree are given in the *General Information* section of this catalog.

The M.F.A. degree prepares students for professional entry in acting, production, or teaching. Placement in the M.F.A. program is determined by audition/portfolio review, academic credentials, and personal interview. Candidates for admission should have adequate training in theatre. Deficiencies may be corrected before beginning graduate study.

The program emphasizes the study and practice of theatre as an art and discipline. Students of acting and design study concepts of theatre together while working in their areas of specialization. Focus is on the collaboration and synthesis of theatre artistry. Each incoming class is composed of approximately 12 to 18 students in acting and all design areas.

The student's artistic and academic progress will be reviewed at the end of each semester. The *School of Theatre Handbook* gives details on the form and focus of each review. This information is online at <http://www.arts.ufl.edu/theatreanddance/pages/whatyouneedtoknow/downloads/downloads.asp>.

During the final year of study, each student must successfully complete the comprehensive examination and oral defense. The project in lieu of thesis includes research, analysis, rehearsal process, and evaluation. Development and execution of the project includes public performance (acting or design). The written document and oral defense of the project which follow must demonstrate the ability to communicate the creative process.

Graduate acting students audition for all departmental productions.

Other

Theatre

College

[College of the Arts](#)

Department/School

[School of Theatre and Dance](#)

Degrees Offered with a Major in Theatre

Master of Fine Arts

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Theatre and Dance Departmental Courses

- ARC 6670: Lighting Design Seminar
- DAN 6436: Laban Movement Analysis
- DAA6757: Pilates Technique for the Dancer
- DAA6905: Graduate Dance Project
- DAN 6949: Dance Clinical Practice
- THE 5238: African-American Theatre History and Practice
- THE 5287: History of Decor and Architecture for the Stage
- THE 5910: Introduction to Graduate Study in Theatre
- THE 6265: Costume History
- THE 6525: History, Literature, and Criticism I
- THE 6526: History, Literature, and Criticism II
- THE 6565: Seminar in Creative Process
- THE 6905: Individual Study
- THE 6940: Supervised Teaching
- THE 6941: Internship
- THE 6950: Applied Theatre
- THE 6955: Summer Repertory Theatre
- THE 6971: Research for Master's Thesis
- THE 6973C: Project in Lieu of Thesis
- TPA5025: Lighting Design I
- TPA5047: Costume Design I
- TPA5067: Scene Design I
- TPA5072: Drawing and Rendering
- TPA5079: Graduate Scene Painting
- TPA5082: Advanced Theatre Graphics
- TPA5236: Costume Technologies Workshop
- TPA6005: Design I
- TPA6006: Design II
- TPA6009: Design Studio
- TPA6026: Lighting Design II
- TPA6048: Costume Design II
- TPA6054: Detail Design for Costume Designers
- TPA6069: Scene Design II
- TPA6235: Costume Construction
- TPA6237: Pattern Making: Flat Patternmaking
- TPA6243: Pattern Making: Draping
- TPA6258: Computer Drafting 2D
- TPA6357: Programming and Presentation for the Lighting Designer
- TPP 5234: Multi-Cultural Performance Workshop
- TPP 6115: Graduate Acting I: Modern Acting Theory and Practice
- TPP 6116: Graduate Acting II: Shakespeare and High Style
- TPP 6145: Graduate Acting III: Period Styles
- TPP 6149: Acting IV: Contemporary Realism

- TPP 6225: Professional Seminar: Acting
- TPP 6237: MFA Company Acting Workshop
- TPP 6266: Acting for the Camera
- TPP 6285: Voice and Movement I
- TPP 6286: MFA Voice and Speech II: Shakespeare and High Styles
- TPP 6297: The Alexander Technique I
- TPP 6298: The Alexander Technique II
- TPP 6299: The Alexander Technique III
- TPP 6385: Directing
- TPP 6515: Graduate Movement Training
- TPP 6536: Graduate Stage Combat
- TPP 6717: MFA Voice and Speech III: Period Styles
- TPP 6718: MFA Voice and Speech IV: Advanced Vocal Training for the Actor
- TPP 6946: Performance Practicum

Fisher School of Accounting

[Warrington College of Business Administration](#)

Director: Gary A. McGill

Graduate Coordinators: Dominique DeSantiago, Stephen Asare

Complete faculty listing by department: [Follow this link.](#)

As a professional school in a major public research university, the Fisher School of Accounting (FSOA) is committed to scholarly research, teaching, and service to advance knowledge and prepare future leaders for business, professional, and academic careers.

The Fisher School of Accounting offers graduate work leading to the Master of Accounting (M.Acc.) degree with a major in accounting, and the Ph.D. degree with a major in business administration and an accounting concentration. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below, or visit our website: <http://warrington.ufl.edu/accounting>

Other

Accounting

College

[Warrington College of Business Administration](#)

Department/School

[Fisher School of Accounting](#)

Accounting Program Information

Master of Accounting: Three variations of the Master of Accounting degree program are available. These allow students to select one of three tracks: Audit, Tax, and Generalist. Minimum admission requirements include an acceptable score on the Graduate Management Admission Test (GMAT), with a minimum score of 550 and completion of essays with a minimum score of 4. International students must submit a satisfactory score on the following TOEFL (Test of English as a Foreign Language: paper-based=570, internet-based=86). Additional information, including minimum GPA standards for admission, may be viewed at <http://warrington.ufl.edu/accounting/academics/macc>.

Combined degree program: The recommended curriculum to prepare for a professional career in accounting is the 3/2 five-year program with a joint awarding of the Bachelor of Science in Accounting and Master of Accounting degrees upon completion of the 150-hour program. The entry point into the 3/2 program is the beginning of the senior year.

Traditional Master of Accounting program: Students who have already completed an undergraduate degree in accounting may enter the 1-year M.Acc. degree program which requires satisfactory completion of 34 hours of course work. A minimum of 28 credits must be in graduate-level courses; a minimum of 20 credits must be in graduate-level accounting courses. The remaining credits are selected from recommended elective courses that vary by area of specialization. Students are cautioned to seek early advisement, since many graduate courses are offered only once a year.

J.D./MAcc. program: A joint program leading to the Juris Doctor and Master of Accounting degrees is offered by the Fisher School of Accounting and Levin College of Law. Specific details for the M.Acc., J.D./M.Acc., and Ph.D. programs are available at <http://warrington.ufl.edu/accounting/academics/jd-macc>.

Degrees Offered with a Major in Accounting

Master of Accounting

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Business Administration (Accounting)

College

[Warrington College of Business Administration](#)

Department/School

[Fisher School of Accounting](#)

Business Administration (Accounting) Program Information

The Ph.D. program offers a broad-based interdisciplinary training that prepares students to conduct both empirical and analytical research. The curriculum consists of course work of four types: the major field, a breadth requirement, a research foundation requirement, and a minor or supporting field. In addition, students must demonstrate competence in conducting research and teaching, and must complete a dissertation on an accounting topic.

The major field in accounting consists of at least 18 credit hours of course work including research analysis, archival research, analytical research, experimental research, readings, and a research project. The breadth requirement consists of at least 13 credit hours of course work including microeconomic theory, corporate finance theory, game theory, asset pricing, and information economics. The research foundation requirement consists of at least 12 hours of graduate course work in mathematical economics, statistics, or econometrics. The minor or supporting field requirement is met by completing a minimum of 12 hours of graduate course work in the selected field.

Students demonstrate competency in conducting research by completing a research project in the summers of the first and second year. The teaching competence is demonstrated by completing at least 1 hour (but no more than 5 hours) of supervised teaching and by teaching for at least 2 semesters. Admission requirements include a history of academic excellence, adequate score on the GMAT (the average score of recently admitted applicants is 690 for GMAT), competence in written and spoken English (TOEFL Internet-Based test (iBT) required for applicants whose native language is not English), appreciation of accounting issues, and institutional and math competency. The school requires a total score of 91, including a minimum of 26 on the speaking section.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Accounting

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics

- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance

- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I

- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations

- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Economics Department

Chair: R. D. Blair

Graduate Coordinator: S. M. Slutsky.

Complete faculty listing: [Follow this link.](#)

The department offers the Master of Arts (thesis and nonthesis option) and Doctor of Philosophy degrees in economics with specializations in econometrics, economic theory, industrial organization, international economics, monetary economics, and public finance.

M.A. requirements: A minimum of 36 credits of course work is required for the M.A. with and without thesis. A maximum of six credits of the research course [ECO 6971](#) may be included for a master's degree with thesis. The following core courses are required: [ECO 7408](#) and [ECO 7404](#) or equivalent, [ECO 7415](#) or equivalent, [ECO 7115](#), and [ECO 7206](#).

Ph.D. requirements: Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) an acceptable score on the GRE, and (c) for nonnative speakers of English, an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

All core courses must be completed in the first year. In addition, students must complete courses in three fields of specializations and pass qualifying examinations in two of those fields.

Complete descriptions of the minimum requirements for the M.A. and Ph.D. degrees are provided elsewhere in this catalog

Other

Economics

College

[Warrington College of Business Administration](#)

Department/School

[Economics Department](#)

Degrees Offered with a Major in Economics

Doctor of Philosophy

Master of Arts

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research

- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Finance, Insurance, and Real Estate Department

Chair: Michael D. Ryngaert

Graduate Coordinator: Mahen Nimalendran

Complete faculty listing: [Follow this link.](#)

The Department of Finance, Insurance, and Real Estate offers graduate work leading to the Master of Science degree with major programs in finance and real estate; the Master of Science in Entrepreneurship (M.S.E.); and the Doctor of Philosophy degree in business administration with a concentration in finance, insurance, quantitative analysis, or real estate. Complete descriptions of the minimum requirements for the M.S., M.S.E., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

Finance, Real Estate, and Entrepreneurship are also available as concentrations within the M.B.A. program. For information about the M.B.A. program, please consult that listing in the [Graduate Degrees](#) section.

For more information see the program pages below, and visit our website: <http://warrington.ufl.edu/departments/fire>.

Other

Business Administration (Finance, Insurance, and Real Estate)

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Business Administration (Finance, Insurance, and Real Estate) Program Information

The Ph.D. in Business Administration - Finance and Real Estate program prepares students to engage in productive scholarly research and teaching in the broad area of financial and real estate economics. Graduates of this program typically are placed with major universities in the United States, although some students choose to work in research positions at non-academic institutions.

The Ph.D. program has a strong emphasis on scholarly research training. Admission requirements include (a) minimum grade point average of 3.5 in the last two years of an undergraduate program and in any previous graduate-level work, (b) minimum GRE score of 1300 or GMAT score of 600 (both verbal and quantitative scores must exceed the sixtieth percentile), and (c) (for nonnative speakers of English) a minimum score of 550 on the TOEFL. Generally students will not be admitted to the Ph.D. program unless they have been offered financial assistance by the University.

Finance

The student pursuing a concentration in finance typically specializes in corporate finance, financial markets and institutions, or investments. The Ph.D. curriculum consists of course work of four types: research foundations, the major field, a minor or supporting field, and a breadth requirement.

The research foundation requirements are comprised of courses in microeconomic theory, macroeconomic theory, mathematical methods and applications to economics, mathematical statistics, and econometrics. The actual courses will depend on the student's background and proposed thesis research.

The major field in finance consists of at least 16 credit hours in graduate course work in finance including financial theory, corporate finance, and seminars in empirical methods, market micro structure, and special topics. Students may elect to have one "strong" minor (16 credit hours), two "weak" minors (8 credit hours each), or a supporting field which is not declared as a minor. If a supporting field is chosen, at least 16 hours of course work acceptable to the student's supervisory committee must be taken. The supporting field option is selected when a student wishes to take courses across a number of departments. The department offers a combined B.S./M.S. program. Contact the graduate coordinator for information.

The breadth requirement applies only to students with no prior course work in business and consists of financial and managerial accounting or their equivalents, plus two courses out of the following areas: managerial economics, production operations management, or problems and methods in marketing management.

Real Estate

The research foundations are identical to those listed above for finance. The major field, minor, and supporting field requirements have the same credit stipulation as those outlined above for finance, except that the major work is in real estate.

The breadth requirement, as in all concentrations for the business administration program, applies only to students entering without prior course work in business. It consists of at least three courses from the following list (two or more fields must be represented): managers and legal environment of business, finance, money and capital markets, problems and methods of marketing management, consumer behavior, and financial and managerial accounting.

Other degree requirements are listed in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-fre>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Finance

concentration in Insurance

concentration in Quantitative Finance

concentration in Real Estate and Urban Analysis

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management

- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting

- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization

- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Information Systems and Operations Management Departmental Courses

- ISM 5021: Information Systems in Organizations
- ISM 6022: Management Information Systems
- ISM 6123: Systems Analysis and Design
- ISM 6128: Advanced Business Systems Design and Development I
- ISM 6129: Advanced Business Systems Design and Development II
- ISM 6215: Business Database Systems I
- ISM 6216: Business Database Systems II
- ISM 6217: Database Management Systems
- ISM 6222: Business Telecom Strategy and Applications I
- ISM 6223: Business Telecom Strategy and Applications II
- ISM 6224: Business Telecom Strategy and Applications III
- ISM 6226: Business Telecom Strategy and Applications
- ISM 6236: Business Objects I
- ISM 6239: Business Objects II
- ISM 6257: Intermediate Business Programming
- ISM 6258: Advanced Business Programming
- ISM 6259: Business Programming
- ISM 6405: Business Intelligence
- ISM 6423: Data Analysis for Decision Support
- ISM 6485: Electronic Commerce and Logistics
- ISM 6486: eCommerce Technologies
- ISM 6487: Risks and Controls in eCommerce
- ISM 6942: Electronic Commerce Practicum
- ISM 7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics

- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing

- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Entrepreneurship

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Entrepreneurship Program Information

The Masters of Science in Entrepreneurship (M.S.E.) program is a one-year, 36-credit, campus-based program designed for young and aspiring entrepreneurs and change-makers. Offered to both business and non-business majors alike, the program is a combination of classroom delivery and experiential learning activities with a focus on opportunity assessment, feasibility analysis, lean entrepreneurial concept testing, business plan development, entrepreneurial leadership, and the sourcing of capital. Students are exposed to cutting edge entrepreneurial theory, which they apply immediately by consulting for small business, commercializing UF technology, and creating their own businesses.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/mse>.

Degrees Offered with a Major in Entrepreneurship

Master of Science in Entrepreneurship

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics

- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Finance

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Finance Program Information

The student pursuing a major in finance typically specializes in corporate finance, financial markets and institutions, or investments.

Master of Science degree in Finance, nonthesis option: This M.S. program option consists of at least 32 credits in letter-graded courses. It is designed to ensure that each student acquires a basic knowledge of the major financial economics subject areas: corporate finance, derivatives, fixed income securities, investments, international finance, and real estate. The program is designed to prepare students with an undergraduate background in finance for positions in commercial banking, money management, investment banking, and securities markets.

The Department also offers a combined bachelor's/master's program. Contact the admissions director for information.

Master of Science degree in Finance/juris doctorate joint degree program: This joint degree program culminates in the M.S. and J.D. degrees. Applicants must meet the entrance requirements for both the Warrington College of Business Administration and the Levin College of Law. Admission to the second degree program is required no later than the end of the second consecutive semester after beginning one degree in the joint program.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/msf>.

Degrees Offered with a Major in Finance

Master of Science

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures

- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Real Estate

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Real Estate Program Information

The ten-month, full-time in residence, Nathan S. Collier Master of Science in Real Estate (MSRE) Program, housed in the Warrington College of Business Administration (WCBA), thrives on innovation, a dynamic student body, significant interaction with high-level working professionals, and nationally recognized professors. The program is a unique combination of theory and practice that will both enhance your real estate education and develop your professional skills.

Master of Science degree in real estate, nonthesis option: This M.S. option consists of at least 34 credits of letter-graded courses. It is designed to ensure that each student acquires a basic knowledge of the various functional areas in real estate, real estate finance and investment, real estate development, real estate law and institutions, real estate asset management, international real estate, and advanced training in specialized areas. The capstone course (REE 6948) involves actual projects in which students work in teams to undertake a real estate problem for real clients. This two-tiered program of study provides both a firm theoretical foundation for later professional effectiveness and an applied bridge to professional practice.

Master of Science degree in real estate/juris doctorate joint program: This joint degree program culminates in the M.S. and J.D. degrees. Applicants must meet the entrance requirements for both the Warrington College of Business Administration and the Levin College of Law. Admission to the second degree program is required no later than the end of the second consecutive semester after beginning one degree of the joint program.

The Department also offers a combined bachelor's / master's program for all undergraduate disciplines.

For more information, please contact the admissions director and see our website: <http://warrington.ufl.edu/graduate/academics/msre>.

Degrees Offered with a Major in Real Estate

Master of Science

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures

- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Information Systems and Operations Management Department

[Warrington College of Business Administration](#)

Chair: Haldun Aytug

Graduate Coordinator: Praveen Pathak

Complete faculty listing: [Follow this link.](#)

The primary mission of the Department of Information Systems & Operations Management is a commitment to scholarly research, teaching and service to advance the state of knowledge in information systems and supply chain management and to train future leaders for professional and academic careers.

The Department offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Combined Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/isom>.

Other

Business Administration (Information Systems and Operations Management)

College

[Warrington College of Business Administration](#)

Department/School

[Information Systems and Operations Management Department](#)

Business Administration (Information Systems and Operations Management)

The Department of Information Systems & Operations Management offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Doctor of Philosophy: The mission of the Ph.D. Program is to educate scholars who will make substantial contributions in their field of research. Our primary goal is to train graduate students to make such contributions. To achieve this goal, we attempt to place students in productive academic research environments. The major areas of study within the department are Information Systems/Information Technology (IS/IT) and Operations Management (OM).

Students come from a variety of backgrounds, with the most common being engineering, computer sciences, mathematics, business, and statistics. Students admitted for the Ph.D. choose to specialize either in information systems/information technology or in operations management. The course schedule taken by each student is always personalized to fit the background of the student and is developed in consultation with the Ph.D. program coordinator and/or chair of the dissertation committee. Additionally, doctoral students will be required to attend all ISOM Workshops and the Department Seminar Series (regardless of area of specialization) held at the University of Florida.

Admission requirements for the Ph.D. include

- A minimum grade point average of 3.2
- A minimum GMAT score of 650, or GRE scores acceptable to the program
- For nonnative speakers of English, submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-isom>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Information Systems and Operations Management

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX5005: Introduction to Federal Income Taxation
- TAX5025: Federal Income Tax 1
- TAX5027: Federal Income Tax 2
- TAX5065: Tax Professional Research
- TAX6105: Corporate Taxation
- TAX6115: Advanced Corporate Taxation
- TAX6205: Partnership Taxation
- TAX6526: International Taxation
- TAX6726: Executive Tax Planning
- TAX6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets

- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
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- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
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- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
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- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
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- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation

- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research

- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Information Systems and Operations Management

College

[Warrington College of Business Administration](#)

Department/School

[Information Systems and Operations Management Department](#)

Information Systems and Operations Management Program Information

The Department of Information Systems & Operations Management offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Master of Science: The M.S.ISOM program provides computing, analytical, and application skills to be used in a business setting. The primary areas of emphasis in the M.S.ISOM program are business intelligence and analytics, information systems/information technology, and supply chain management. Requirements span traditional academic disciplines to produce a multiple-discipline focus. Typical positions for graduates include decision support specialist, information systems specialist, systems analyst, and logistic support specialist.

For a student with a bachelor's degree in business or economics, the M.S.ISOM non-thesis on-campus program consists of a minimum of 36 credit hours, normally requiring a minimum of three semesters of study, not including summer. For students without a bachelor's degree in business or economics, the M.S.ISOM non-thesis on-campus program consists of a minimum of 40 credit hours, normally requiring a minimum of four semesters of study, not including summer.

All M.S.ISOM candidates must complete 26 credits of core coursework:

- [GEB 5212: Professional Writing in Business](#)
- [GEB 5215: Professional Communication in Business](#)
- [ISM 6128: Advanced Business Systems Design and Development I](#)
- [ISM 6129: Advanced Business Systems Design and Development II](#)
- [ISM 6215: Business Database Systems I](#)
- [ISM 6222: Business Telecom Strategy and Applications I](#)
- [ISM 6223: Business Telecom Strategy and Applications II](#)
- [ISM 6257: Intermediate Business Programming](#)
- [ISM 6258: Advanced Business Programming](#)
- [ISM 6485: Electronic Commerce and Logistics](#) (capstone course)
- [MAN 6581: Project Management](#)
- [OMB 6358: Statistical Analysis for Managerial Decisions I](#)
- [OMB 6755: Managerial Quantitative Analysis I](#)
- [OMB 6756: Managerial Quantitative Analysis II](#)

All M.S.ISOM candidates must also complete 6 credits of track coursework for the information technology, supply chain management, or business intelligence and analytics track:

Information Technology Track

- [ISM 6216: Business Database Systems II](#)
- [ISM 6236: Business Objects I](#)
- [ISM 6259: Business Programming](#)

Supply Chain Management Track

- [MAN 6511: Production Management Problems](#)
- [MAN 6528: Principles of Logistics/Transportation Systems](#)
- [MAN 6573: Purchasing and Materials Management](#)

Business Intelligence and Analytics Track

- [ISM 6216: Business Database Systems II](#)
- [ISM 6405: Business Intelligence](#)
- [ISM 6423: Data Analysis for Decision Support](#)

These required courses total 32 credit hours. In addition, each M.S.ISOM student with an undergraduate major or minor in business must take a minimum of 4 additional hours of approved graduate business electives for a total of 36 credit hours required for the M.S.ISOM degree. For students without an undergraduate business degree or minor, instead of graduate business electives, they must complete four of the following core business courses: [ACG 5005](#), [ACG 5075](#), [ECP 5702](#), [FIN 5437](#), [FIN 5439](#), [MAN 5246](#), [MAR 5806](#).

Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/ms-isom>

Degrees Offered With a Major in Information Systems and Operations Management

Master of Science in Information Systems and Operations Management

without a concentration

concentration in Supply Chain Management

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems

- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Management Department

[Warrington College of Business Administration](#)

Chair: Robert E. Thomas

Graduate Coordinator: Amir Erez

Complete faculty listing: [Follow this link.](#)

The Management Department offers graduate work leading to a Ph.D. degree with a major in Business Administration and a concentration in Management; a Master of Business Administration degree with a concentration in Management; a Master of Science degree with a major in Management; and a Master of International Business (M.I.B.). Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

The Department participates in combined bachelor's/master's degree programs for the Master of International Business (M.I.B.) and Master of Science (M.S.) with a major in management. The Master of International Business is open to students pursuing a bachelor's degree in a business discipline or minor in business administration. The M.S. with a major in management program is only open to non-business majors. Contact the graduate coordinator for information.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/mgt>.

Other

Business Administration (Management)

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

Business Administration (Management) Program Information

Doctor of Philosophy

The Ph.D. program in business administration in the Department of Management prepares students for careers as faculty members of universities that emphasize teaching and research. The program is designed so that the student will (1) develop strong competence in the base discipline crucial to the study of organizations and organization processes and (2) follow a field of specialization in organizational behavior, organizational theory, human resource management, and strategic studies. Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) a minimum GRE score of 1000, and (c) for nonnative speakers of English, a minimum score of 550 on the TOEFL.

The research interests of the faculty are quite broad. For example, work is being done on defining the domain of performance in organizations, employee selection, performance appraisal, goal setting and incentives, aging, dispositions and job satisfaction, corporate governance, health care, innovation processes, organizational control and executive compensation practices, agency theory, and organizational processes. Faculty often work on interdisciplinary projects with other departments.

In addition, the student has exposure to scholars and faculty members from other universities, and from other departments in the University, who are invited to give workshops in the Department.

Breadth Requirement: All students pursuing the Ph.D. are expected to be well versed in the structure and functioning of business organizations and the environment within which they operate. This requirement may be met through undergraduate or master's level work in business administration. The student who does not meet the breadth requirement before entering the Ph.D. program must take at least three graduate courses in different functional areas in the Warrington College of Business Administration but outside of the Department of Management. These courses should complement the major area of study selected by the student.

Research Skills Requirement: The general nature of the research requirement has been specified by the Graduate Committee of the Warrington College of Business. Students must take six approved courses to satisfy it. For the typical student in the Department of Management, the research foundation courses include at least 18 credits in courses such as philosophy of social science (e.g., [PHI 5425](#) or [PHI 5405](#)), basic statistical methods (e.g., [STA 6126](#)), research methods (e.g., [MAR 7786](#), [EDF 7486](#), or [PPE 6308](#)), psychometrics (e.g., [EDF 6436](#), [EDF 7439](#)), multivariate analysis ([EDF 7932](#)), experimental design ([MAR 7622](#)), field research methods ([POS 6757](#)), and qualitative research ([EDF 6475](#), [SYA 6315](#)). The specific program is determined by the student's supervisory committee and will be tailored to fit the student's prior preparation and the specialization that the student chooses.

Major Course Requirements: The program of study for each student will include required seminars in Organizational Behavior, Organizational Theory, Strategic Management, and Human Resource Management Research, and the Management Workshop.

Specialization Requirements: Each student selects a specialization area. Courses must provide the depth of knowledge required to teach and conduct research successfully in the area of specialization. This part of the program will be developed by the supervisory committee in conjunction with the student. The specialization courses are primarily offered within the Department of Management, although it is quite common for students to take courses in related disciplines, such as Marketing, Finance, Economics, Psychology, Statistics, and Decision and Information Systems. Procedures for the qualifying examinations, dissertation, and final examination are given in the Requirements for the Ph.D. section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-mgt>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Management

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation

- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis

- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management

- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

International Business

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

International Business Program

The Master of International Business (M.I.B.) is a non-thesis interdisciplinary graduate business program designed to enhance a student's knowledge and understanding of global business trends and problems.

All M.I.B. candidates must complete the 30-credit curriculum, which consists of 14 core credits and 16 elective credits, with a grade point average (major and overall) of 3.0 or higher. The curriculum includes a mandatory global immersion experience and a non-thesis capstone project.

Combined Degree: The Master of International Business offers a combined bachelor's/master's degree option for students pursuing a bachelor's degree in a business discipline or minor in

business administration.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/mib>.

Degrees Offered with a Major in International Business

Master of International Business

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions

- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation

- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis

- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Management

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

Management Program Information

Master of Science degree with a major in Management, non-thesis option: This M.S. program is designed to afford general business competency to students who possess little or no educational business background. The M.S. with a major in management program is only open to non-business majors. Students must complete the 32-credit curriculum, which consists of 22 core credits and 10 elective credits, with a grade point average (major and overall) of 3.0 or higher.

Combined Degree Program: The M.S. with a major in management offers a combined bachelor's/master's degree option.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/msm>.

Degrees Offered with a Major in Management

Master of Science

without a concentration

concentration in Health Care Risk Management

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy

- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I

- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation

- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management

- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business

- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Marketing Department

Chair: Joseph W. Alba

Graduate Coordinator: Lyle A. Brenner

Complete faculty listing: [Follow this link](#)

The Marketing Department at the University of Florida is a recognized leader in the discipline of marketing. For over a decade, our faculty has ranked as one of the most productive and influential in the field. Our faculty is known for conducting provocative, cutting-edge research that contributes both to the scientific understanding and practice of marketing. Our Ph.D. program has produced many leading researchers in the discipline. And the David F. Miller Center for Retailing Education and Research is known as one of the foremost centers for developing the science of retailing.

The Marketing Department offers graduate work leading to the Ph.D. degree in business administration, the M.S. degree in business administration, and a concentration in the Master of Business Administration (M.B.A.) program. Requirements for the M.B.A., M.S., and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/departments/mkt>.

Other

Business Administration (Marketing - Master's)

College

[Warrington College of Business Administration](#)

Department/School

[Marketing Department](#)

Business Administration (Marketing - Master's)

The Masters of Business Administration (M.B.A) with a concentration in marketing focuses on consumer behavior, marketing management, and marketplace phenomenon. Students study the critical linkages between an organization and its environment, particularly customers and competitors.

The M.S. degree in Business Administration with a concentration in marketing is intended for students whose ultimate objective is to earn a Ph.D. in marketing at another institution. Applicants must have (a) an undergraduate degree from a nationally accredited program, (b) a minimum 3.5 undergraduate GPA, (c) a minimum 600 GMAT (1250 GRE), and (d) evidence of a strong interest in academic research in marketing. The concentration requires 30 credits of graduate-level courses, at least half of which must be in marketing.

Degrees Offered with a Major in Business Administration

Master of Arts

concentration in Marketing

Master of Science

concentration in Marketing

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Marketing - Ph.D.)

College

[Warrington College of Business Administration](#)

Department/School

[Marketing Department](#)

Business Administration (Marketing - Ph.D.)

The doctoral program is research-focused and offers the opportunity for concentrated study in consumer behavior, marketing management, and quantitative or analytical modeling of marketplace phenomena.

The Ph.D. curriculum consists of course work in three areas: research foundations, the major field, and electives. In addition, students are required to complete a first-year summer research project, a third-year review paper, and a dissertation. Other requirements are outlined in the [Graduate Degrees](#) section of this catalog.

The research foundations requirement comprises a set of research methods and data analysis courses chosen from statistics, psychology, and/or economics. The major field course work is made up of a set of four required marketing seminars that are completed during the student's first 2 years in the program. Electives are selected from both advanced marketing seminars and other related disciplines to complement the student's research program.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Marketing

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I

- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions

- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Dental Sciences Department

[College of Dentistry](#)

Endodontics Chair and Graduate Coordinator: Roberta Pileggi
Orthodontics Chair and Graduate Coordinator: Calogero Dolce
Periodontology Chair: Ikramuddin Aukhil; Graduate Coordinator: Rodrigo Neiva
Restorative Dental Sciences Interim Chair: William Willis; Graduate Coordinator: Edgar O'Neill

Complete faculty listing: [Follow this link](#).

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1

The application deadline of Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402

Requirements for the M.S. degree are provided in the [Graduate Degrees](#) section of this catalog

For further information, see the Dental Science program link below.

Other

Dental Sciences

College

[College of Dentistry](#)

Department/School

[Dental Sciences Department](#)

Dental Sciences Program Information

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1

The application deadline of Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402.

Those not in Dentistry are given in-department graduate credit. Registration in the courses listed below is restricted to students currently admitted to a program in the College of Dentistry.

Degrees Offered with a Major in Dental Sciences

Master of Science

without a concentration

concentration in Endodontics

concentration in Orthodontics

concentration in Periodontics

concentration in Prosthodontics

General Courses

- DEN 6937
- DEN 6674: Advanced Oral Pathology
- DEN 6675: Craniofacial Pain
- DEN 6678: Advanced Oral Medicine and Drug Interactions in Dentistry
- DEN 6679: Advanced Radiology and Interpretation
- DEN 6905: Individual Study
- DEN 6910: Supervised Research
- DEN 6934: Special Topics in Dentistry
- DEN 6935: Special Topics in Dentistry
- DEN 6936: Practice Management
- DEN 6940: Supervised Teaching
- DEN 6941: Clinical Teaching in Dentistry
- DEN 6942: Grand Rounds
- DEN 6971: Research for Master's Thesis
- DEN 6973: Project in Lieu of Thesis

Endodontics Courses

- DEN 6642: Introduction to Advanced Endodontics
- DEN 6643: Treatment Planning/Cases Presentation
- DEN 6644: Nonsurgical Endodontic Care I
- DEN 6645: Nonsurgical Endodontic Care II
- DEN 6646: Surgical Endodontics I
- DEN 6647: Surgical Endodontics II

Orthodontics Courses

- DEN 6602: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 1: Class I Treatment
- DEN 6603: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 2: Class II Treatment
- DEN 6604: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 3: Class II Treatment and Overbite Treatments
- DEN 6605: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 4: Class II Treatment and Overbite Treatments
- DEN 6606: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 5: Class III and Crossbite Treatments and Soft Tissue Considerations
- DEN 6607: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 6: Impactions, Transplantations and Stability
- DEN 6608: Analysis, Diagnosis, and Treatment Planning: Part I
- DEN 6609: Analysis, Diagnosis, and Treatment Planning: Part II
- DEN 6610: Biology of Tooth Movement: Part I
- DEN 6612: Orthodontic Biomechanics: Part I
- DEN 6613: Orthodontic Biomechanics: Part II
- DEN 6614: Ortho-Perio Relationships: Part I
- DEN 6615: Ortho-Perio Relationships: Part II
- DEN 6616: Orthognathic Surgery: Part I
- DEN 6617: Orthognathic Surgery: Part II
- DEN 6618: Postnatal Growth and Development
- DEN 6670: Craniofacial Anomalies
- DEN 6671: Prenatal Growth and Development
- DEN 6672: Materials in Orthodontics

Periodontics Courses

- DEN 6652: Review of Periodontics Literature I
- DEN 6653: Review of Periodontics Literature II
- DEN 6654: Review of Periodontics Literature III
- DEN 6655: Review of Periodontics Literature IV
- DEN 6656: Introduction to Advanced Periodontology
- DEN 6657: Periodontal Histology and Histopathology
- DEN 6658: Treatment Planning in Periodontal Therapy

Prosthodontics Courses

- DEN 6622: Principles of Occlusion
- DEN 6623: Maxillofacial Prosthetics
- DEN 6624: Dental Implant Restoration
- DEN 6625: Fixed Prosthodontic Ceramics
- DEN 6626: Advanced Removable Partial Dentures
- DEN 6627: Treatment Planning Seminar

School of Architecture

Director: M. Gold.

Graduate Coordinator: N. M. Clark.

Complete faculty listing [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization in this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, Box 115701.

Master of Architecture: The School of Architecture offers graduate work leading to the first professional degree, Master of Architecture. During graduate studies, each student has the opportunity to focus on one or more areas, including design, history and theory, urban design, preservation, structures, and technology. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design. The student's overall college experience, both undergraduate and graduate programs, is intended to be a complete unit of professional education leading to practice in architecture or related fields.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Florida School of Architecture offers the following NAAB-accredited degree programs:

Master of Architecture (pre-professional degree + 52 graduate credits) Master of Architecture (professional degree + 30 graduate credits) Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits)

Master of Architecture (pre-professional degree + 52 graduate credits) : For those students who have a 4-year baccalaureate degree from an accredited architectural program, 2 years in residence (52 credits) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and

transcript review. [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. Course sequences in history and theory, technology, structures, and practice must also be completed.

Master of Architecture (professional degree + 30 graduate credits): For students who have a baccalaureate degree with an architecture or related major (interior design, landscape architecture) and who have completed 4 or 6 architecture or design studies courses, three years of residence (83 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. ARC 4073, ARC 4074, [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. (Undergraduate courses 3000 and 4000 level in the major do not count toward the minimum requirements for the graduate degree.) Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits): For students with a baccalaureate degree in a nonrelated academic area and have completed fewer than 4 design studies courses, 4 years of residence (112 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. ARC 4071, ARC 4072, ARC 4073, ARC 4074, [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or project. Undergraduate courses 3000 and 4000 level in the major do not count toward the 52-hour minimum requirements for the graduate degree. Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Accredited 5-year professional base: For students with a baccalaureate degree in architecture from an accredited 5-year professional degree program, a 1-year degree program is available. In these cases, a specialized curriculum is developed that compliments the needs of the applicant. Minimum registration is 30 credits; however, the minimum may increase if transcript reviews show that further course work is needed to meet registration and curriculum requirements. [ARC 6356](#) is a prerequisite for the thesis or master's project.

Most states require individuals intending to become architects to hold an accredited degree. The National Architectural Accrediting Board acknowledges two types of degrees: the Bachelor of Architecture (minimum 5 five years of study); and the Master of Architecture (minimum 3 years of study after an unrelated bachelor's degree, or 2 years after a related pre-professional bachelor's degree). These professional degrees educate those who aspire to registration and licensure to practice as architects.

Student work: The College may retain student work for the purpose of record, exhibition, or instruction.

Master of Science in Architectural Studies: The M.S.A.S. is a nonprofessional degree for advanced investigations in specialized areas of architectural history, architectural pedagogy, theory, technology, design, preservation, or practice. Students with a bachelor's degree in any discipline from an accredited university are eligible to apply to this program; the proposed area of focus should be precisely defined in the application. This is a 3- to 4-semester program (32 hours minimum) that includes a thesis. (No more than 6 hours of ARC 6971 may be counted in the minimum credit hours for the degree.) Interdisciplinary study is encouraged. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design.

The School sponsors special curricula in architecture to enhance the academic program. *Preservation Institute: Caribbean, Preservation Institute: Nantucket, and Vicenza Institute of Architecture (Italy)* accepts students from the University of Florida, and also from academic circles throughout the United States and the world for year-round study. Any student in a graduate architecture program at the University of Florida may apply for one or more of these programs.

Requirements for the M.Arch., M.S.A.S., and Ph.D. degrees are described in the *General Information* section of this catalog.

The School also participates in a program granting an Interdisciplinary Concentration and Certificate in Sustainable Architecture. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Applications: All applications for fall term graduate admission (including official transcripts, GRE scores, and TOEFL scores, if necessary) must be received by the Office of the Registrar by January 15. In addition to satisfying University requirements for admission, applicants are required to submit to the Graduate Program Assistant, School of Architecture, 231 ARCH, Box 115702, the following: a portfolio of their creative work; a scholarly statement of intent and objectives; and three letters of recommendation. This material must be received by January 15 to be considered for admission in the next fall term. Students may apply after the January 15 deadline but will only be considered if spaces become available. (Updates of portfolios are accepted after January 15; however, applications will not be considered until they are complete.)

The School reserves the right to retain student work for purposes of record, exhibition, or instruction. Field trips are required of all students; students should plan to have adequate funds available. It may be necessary to assess studio fees to defray costs of base maps and other generally used materials.

Other

Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[School of Architecture](#)

Degrees Offered with a Major in Architecture

Master of Science in Architectural Studies

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Master of Architecture

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Courses

- ARC 6512: Structural Modeling
- ARC 6116: Drawing toward Architecture
- ARC 6311C: Building Information Modeling
- ARC 6383: St. Augustine Interdisciplinary Design Studio
- DCP 6710: History and Theory of Historic Preservation
- DCP 6715: Preservation Building Technology
- DCP 6971: Research for Master's Thesis
- URP 6272: Advanced Planning Information Systems

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design

- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

M.E. Rinker, Sr., School of Construction Management

Director: Robert Ries

Director of Master's Programs: Robert E. Minchin

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary doctoral program in design, construction, and planning. Areas of specialization in the program include architecture, construction management, interior design, landscape architecture, and urban and regional planning. Within the area of construction management, specialization options include sustainable construction, information systems, construction safety, affordable housing, productivity, and human resource management. These specializations prepare students to assume college-level faculty positions and industry research positions in construction management and the building sciences. For more information on the Ph.D. program, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701. For information on the specializations in the Rinker School of Construction Management, write to the Director of Graduate and Distance Education, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703.

The M.E. Rinker Sr. School offers courses leading to the degrees of Master of Science in Construction Management (thesis), Master of Construction Management (nonthesis), and Master of International Construction Management (nonthesis distance education program for experienced professionals). An individual plan of study is prepared for each student to insure that the student's goals are achieved within the broad policy guidelines of the Rinker School. Specialization may be in such areas as construction management, sustainable construction, information systems, construction safety, and construction law. Requirements for the M.B.C., M.S.B.C., M.I.C.M., and Ph.D. degrees are given in the General Information section of this catalog.

Master of Construction Management (M.C.M.) or Master of Science in Construction Management (M.S.C.M.): To be eligible for admission to the M.C.M. or M.S.C. programs, a student must hold a 4-year undergraduate degree in building construction or its equivalent in related fields. "Equivalent in related fields" should include studies in construction materials and methods, structures, and management. Students with deficiencies in these related fields may need longer residence for the master's degree, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement.

No more than 3 credits of [BCN 6971](#) may be used to satisfy the credit requirements for the M.S.C.M. degree without written permission of the Director of Master's Programs.

Master of International Construction Management (M.I.C.M.): This program prepares students to assume upper-level management responsibilities in a multinational company. To be eligible for admission to the M.I.C.M. program, a student must have

- A 4-year undergraduate degree
- At least 5 years of meaningful, supervisory-level construction management experience
- Acceptable GRE scores (verbal and quantitative)
- A grade point average of 3.0 on a 4.0 scale
- Employer sponsorship
- International students must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

No more 3 credits of [ICM 6934](#) may be used to satisfy the credit requirements for the M.I.C.M. without written permission of the Director. All candidates are required to take ICM 6930. In addition to these 6 research-oriented graduate credit hours, the student selects one or two areas of emphasis and then takes the rest of the required 33 credit hours from the remaining courses and special electives. All candidates are required to pass a comprehensive oral and/or written examination at the completion of the course work and their master's research report/project.

The M.E. Rinker Sr. School reserves the right to retain student work for purposes of record, exhibition, or instruction.

Research facilities: The Shimberg Center for Housing Studies, operating within the School, researches the problems and possible solutions associated with developing and producing affordable housing. The Powell Center for Construction and the Environment conducts research on implementing sustainability in creating, operating, and constructing a built environment. The Fluor Program for Construction Safety researches and disseminates information on matters related to construction safety and health. The Center for Advanced Construction Information Modeling educates members of the AECO industry about new and emerging technologies in virtual design and construction.

Combined program: The School offers a combined bachelor's/master's degree program. Contact the Director of Master's Programs for information.

For more information, please see our website: <http://www.bcn.ufl.edu>.

Other

Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Construction Management

Master of Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Master of Science in Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis

- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Fire and Emergency Services

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Fire and Emergency Services Program Information

The Master of Fire and Emergency Services degree program focuses on Emergency Services/Disaster Management (ES/DM) and is designed for individuals who are seeking knowledge in emergency planning, hazard mitigation and preparedness, disaster response and recovery, and homeland security. The goal is to create broad experience that includes the many elements of current cases in ES/DM and emphasizes both the critical thinking and leadership skills necessary to advance in the field.

The M.F.E.S. degree provides post-professional advancement for the critical technical issues beyond the initial fire science practices and administrative studies. Major research topics include interdisciplinary studies in material sciences, suppression systems, advanced planning and geographic systems, pre- and post-disaster mitigation planning, computer applications, and technological innovations.

The M.F.E.S. is an online distance education program. All courses are conveniently delivered utilizing a web-based e-Learning system.

For more information, please see our website: <http://www.bcn.ufl.edu/academics/masters/msfesedm>.

Degrees Offered with a Major in Fire and Emergency Services

Master of Fire and Emergency Services

without a concentration

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems

- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

International Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in International Construction Management

Master of International Construction Management

without a concentration

concentration in Historic Preservation

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
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- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
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- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research

- ICM6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
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- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Sustainable Construction

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Sustainable Construction

Master of Science in Construction Management

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management

- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Interior Design Department

Chair: M. Portillo.

Graduate Coordinator: N. Park

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy:

The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Interior Design:

The Master of Interior Design (M.I.D.) provides opportunities for students to direct their attention toward a variety of topics, including

- Design pedagogy and processes
- Sustainable, safe, and secure environments
- Creative performance and innovation
- Built heritage conservation.

Regardless of the study emphasis selected by the student, the M.I.D. program has a central focus with three categories of course work:

- Design studio
- Seminars in current interior design topics
- Theories and methods of research.

All M.I.D. students must complete an approved research topic with a written thesis. Requirements for the M.I.D. and Ph.D. degrees are given in the *General Information* section of this catalog.

Applications:

All applications must include acceptable GRE scores, transcripts for all previous academic work, and if the applicant's native language is not English, a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute. This information must be received in the Office of the Registrar by February 2. In addition to satisfying University requirements for admission, the applicants are required to submit to the Graduate Program Assistant, Department of Interior Design, 336 Architecture, P.O. Box 115705, University of Florida, Gainesville, FL 32611-5705, the following:

- A portfolio of your design work (if applicable). The portfolio must be accompanied by a self-addressed, stamped envelope.
- A written essay on your goals and aspirations related to graduate studies
- Three letters of recommendation.
- A personal interview is not required, but many applicants choose to visit the campus and Department as a part of the application process.

Students enrolled in the Bachelor of Interior Design program at the University of Florida may apply to the M.I.D. program during their junior year (see below).

The Department reserves the right to retain student course work for the purposes of record, exhibition, or instruction. Field trips are required for all students; students should plan to have adequate funds available. Students are required to purchase a computer for course work. It may be necessary to assess studio fees to defray costs of base maps, plans, and other generally used materials.

Admission: Applications are processed through February 2 for fall term and all applicants are encouraged to apply as soon as possible. Admission decisions are made between February and the end of April. All new students begin their studies in the fall to coincide with curriculum sequencing.

Graduate course requirements according to background: After assessment of previous design work, leveling courses may be required to prepare the student for the M.I.D. 36 hours of graduate course work. Therefore, each student entering the Master of Interior Design program works with the graduate coordinator to evaluate the student's unique background to determine the specific courses needed to facilitate interest and experience. Estimated credit hours and length of study time vary according to each student's individual baccalaureate degree and experience.

There are four options.

- For students enrolled in the Bachelor of Design program at the University of Florida, 12 hours of graduate-level course work in the senior year can be counted for both the undergraduate and the M.I.D. degrees. An additional 24 graduate credit hours are required. Expect at least 1 additional year to complete the M.I.D.
- For students who graduated from a Council of Interior Design Accreditation (CIDA) accredited first professional degree program within an architectural framework, the course of study is estimated to be 36 graduate credit hours. Expect 2 years to complete the M.I.D.
- For students who graduated from a design-related (architecture or interior design) baccalaureate degree program, the course of study is estimated to be a maximum of 59 graduate credit hours (includes the 36-hour M.I.D.). Expect 3 years to complete leveling courses and the master's degree.
- For students with a bachelor's degree in a field other than design, the course of study is estimated to be 86 undergraduate and graduate credit hours. Expect 3 to 4 years to complete leveling courses and the M.I.D.

Estimates of the number of credit hours and length of study time may be adjusted based on the individual student's previous preparation including experience as a practicing designer, architect, or other professional.

Program requirements: After leveling courses are completed and with approval by the graduate coordinator and supervisory committee chair, a student completes 24 hours of departmentally approved graduate work in the Department of Interior Design. In addition, with the graduate coordinator's approval, the student is required to take 3 hours of course work in graduate statistics and 9 hours of multidisciplinary graduate electives that reinforce and extend the research.

Courses from such academic units as Psychology, Anthropology, Sociology, Engineering, Education, and Business Administration provide possible electives. The College of Design, Construction and Planning offers the Certificate in Historic Preservation. If the focus of a student is the renovation and preservation of built environments, then historic preservation courses leading to a certificate would strengthen the research and design effort. Likewise, existing appropriate courses in Architecture, Landscape Architecture, Urban and Regional Planning, and Building Construction offer both collaborative study and research opportunities for M.I.D. students.

Each student must select a two-member supervisory committee to guide course selection and to guide thesis selection, study, and production.

Other

Interior Design

College

[College of Design, Construction, and Planning](#)

Department/School

[Interior Design Department](#)

Degrees Offered with a Major in Interior Design

Master of Interior Design

without a concentration

concentration in Historic Preservation

concentration in Sustainable Design

Courses

- IND 5326: Color Theory Planning and Practice

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis

- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Landscape Architecture Department

[College of Design, Construction, and Planning](#)

Chair: Gina Guruchari

Graduate Coordinator: Kevin Thompson

Complete faculty listing by department: [Follow this link](#)

The mission of the Department of Landscape Architecture is to advance the ethical, creative, and skillful application of the art and the science of planning and designing urban, rural and natural environments. The Master of Landscape Architecture seeks excellence through professional practice and service, and through research and scholarly pursuit.

Interstate field trips are required as a part of the normal program curriculum. Students should plan to have adequate funds for field trips and for studio materials. Students are also required to own a laptop computer meeting minimum department requirements. These specifications are available through the department of Landscape Architecture's website at URL: <http://www.dcp.ufl.edu/landscape>.

The Graduate program in Landscape Architecture offers flexibility in meeting the needs of applicants with varied backgrounds. Students entering the graduate program in landscape architecture follow one of the four following tracks:

Pre MLA Program

Graduate students who do not possess an LAAB accredited professional degree in landscape architecture are invited to enroll in the Pre MLA program.

The Pre MLA Program aids the development of basic analytical, design and graphic skills. Upon successful completion of the Pre MLA Summer term, students advance into a two-semester sequence of articulation courses that provide a foundation of applied landscape design and planning theory as well as competencies in landscape construction.

MLA Advanced Graduate Studies Program

Graduate students having completed the Pre MLA program or entering the MLA program with an LAAB accredited professional baccalaureate degree in Landscape Architecture commence a two year program of advanced graduate coursework towards the completion of the MLA degree.

MLA Program + Construction

Graduate students with a non-accredited or non-LAAB accredited degree in Landscape Architecture may apply directly to the MLA program but may be required to take additional coursework to develop core competencies required for advanced graduate study.

MLA Research Degree

Graduate students with an LAAB accredited professional degree in Landscape Architecture and a significant history of achievement in professional practice may tailor a program of advanced study to meet their specific needs. Proposals for the MLA Research Degree option are reviewed by the Graduate Coordinator and an approved course of study is determined through consultation with the Graduate Committee.

The normal tenure of advanced graduate study is five semesters which includes a summer semester internship. Students complete a minimum of 52 credit hours composed of lecture courses, seminars, design and construction studios, internship and individual study (special studies, supervised research and thesis or terminal project).

This time period would be extended should a student elect to expand the course work or seek a concurrent degree in a related field.

Design studios: Graduate design studios build on required lecture and seminar courses. A core of three advanced design studios are typically oriented focusing on issues of human, ecological and regional concern. Each studio requires students to engage a method appropriate to the studio's selected projects, to analyze the findings generated by this research and to use the findings to build a rational argument that leads to a defensible design position. Interdisciplinary and multidisciplinary collaborations are encouraged on both a formal and an informal basis. Graduate studio projects also deal with current issues related to the mission of the Department with an additional focus on research and community service.

Thesis or terminal project: The Department recognizes that students have different professional goals and personal strengths and interests. A thesis is appropriate for students interested in further research or teaching, or in pursuing advanced degrees. A project (with a significant research component) is appropriate for students interested in design or project-oriented aspects of landscape architecture, or if their specific areas of interest suggest a nontraditional approach.

Programs, centers, and institutes: The College of Design, Construction, and Planning has several research centers and institutes. The course work and summer sessions afforded by these programs offer both required and elective course work for graduate students in landscape architecture:

The Center for Landscape Conservation Planning: The Center for Landscape Conservation Planning conducts applied research on the relationship between conservation and land use while providing learning opportunities for students.

The Center for International Design and Planning: The Center for International Design and Planning conducts interdisciplinary research with a focus on emerging design and planning trends in an era of globalization with a focus on resilient development systems and adaptive design and planning strategies.

The Preservation Institute: Nantucket gives students an opportunity to receive specialized educational experience in a broad range of preservation topics using Nantucket as a resource for case-study projects.

The Preservation Institute: Caribbean gives students an opportunity to conduct and apply research regarding the conservation of the rich cultural traditions of the Greater Caribbean basin.

The GEOPLAN Center is dedicated to the development of geographic and spatial information systems. Graduate students receive instruction in geographic information systems and are involved in a multidisciplinary studio that applies the tools and systems understanding afforded by GIS.

Graduate advisement: Students are initially advised by the Graduate Coordinator. He or she has guided the student's application through the acceptance process and is familiar with the student's background and needs. A plan of study is developed that includes required and optional courses. By the end of the second semester of study, each student is required to form a supervisory committee composed of two faculty members. The primary purpose of the graduate committee is to advise the student on educational objectives and the thesis or terminal project course work.

Application Procedure

Details of application procedure are found on the Department of Landscape Architecture's website. Applicants are encouraged to familiarize themselves with the details of the application procedures and the application requirements. Applications will ONLY be considered for the track for which they have been submitted. Make certain you are applying to the correct track based on your background and credentials and the criteria detailed above.

Application Dates

Applications are to be completed and submitted prior to the deadline noted on the Department's website. Unless otherwise noted, international applications must be received by November 1st. Applications from within the US are to be received no later than February 1st. Early applications are encouraged.

Application materials to be submitted online and/or to the Office of the Registrar

Application materials include the online application form accompanied by official transcripts, Letters of Recommendation, GRE scores, and TOEFL scores (applicants with English as a second language) to Office of the Registrar: Admissions Section, Criser Hall, University of Florida, Gainesville, Florida 32611.

Application Materials to be submitted directly to the Department

In addition to the materials submitted to the registrar's office, applicants must also submit a letter of intention to the Department of Landscape Architecture (Graduate Program Assistant).

Application Portfolio

All applicants are encouraged to submit a portfolio of creative works.

Post professional degree applicants applying for either the Pre MLA Fall Start or MLA Advanced Graduate Study program are required to submit a portfolio that both exhibits creative work experience and shows evidence of acquired technical proficiencies in the practice of landscape architecture.

All portfolio must be digital. PDF is preferred.

Application Status

Applications will be processed once all material has been received and must be complete prior to the application deadline. Applicants will be contacted by the Program Assistant if their application is incomplete. Please respond quickly if you have been contacted to increase the chances of your application being considered in the current review period. Only completed applications will be processed for review.

Once the application has been processed for review, applicants will receive written notification of their application status, generally sometime in the middle of March. Please do not contact the department with inquiries of your application status prior to the end of March.

Preparatory courses (see Undergraduate Catalog): LAA 2330, LAA 2350, LAA 2360, LAA 2370, LAA 3420, LAA 3350, LAA 3352, LAA 3421, LAA 3550, [LAA 6716](#), and ORH 3513.

Other

Landscape Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[Landscape Architecture Department](#)

Landscape Architecture Program

The Department of Landscape Architecture offers graduate programs leading to the Master of Landscape Architecture (M.L.A.) degree in Landscape Architecture. A Ph.D. degree with a concentration in Landscape Architecture is also offered through the College of Design, Construction and Planning. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Master of Landscape Architecture: The MLA is a Landscape Architecture Accreditation Board (LAAB) accredited professional Master's degree in Landscape Architecture. Graduation from an accredited program is an essential first step toward licensing in Florida and other states that regulate the practice of landscape architecture.

For more information, please see our website: <http://www.dcp.ufl.edu/landscape>.

Degrees Offered with a Major in Landscape Architecture

Master of Landscape Architecture

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Wetland Sciences

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Urban and Regional Planning Department

Director of School of Landscape Architecture and Planning: Kristin Larsen

Chair: Joseli Macedo

Graduate Coordinator: Stanley Latimer

Graduate Coordinator of Online Degree program: Ferdinand Lewis

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy: The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in Design, Construction, and Planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Arts in Urban and Regional Planning: The Department of Urban and Regional Planning offers graduate work leading to the degree of Master of Arts in Urban and Regional Planning (M.A.U.R.P.). Students are encouraged to enter the program in the fall semester. The program is usually completed in two academic years. The student entering with an undergraduate degree and no graduate study must complete 52 hours of credit for the M.A.U.R.P. degree. Students who have a master's degree in a related field may transfer up to 18 graduate semester hours toward the 52 hour requirement. Such a transfer of credit requires the approval of the Department. The Department encourages students with any undergraduate degree who are interested in the field of planning to apply for admission.

Complete descriptions of the requirements for the M.A.U.R.P. and Ph.D. degrees are provided in the *General Information* section of this catalog.

The urban and regional planning curriculum is designed to provide a set of core studies and contextual projects which prepare the graduate for the practice of planning in public or private agencies at both national and international levels. The core studies include history and theory of planning; planning methods; growth management at local, regional, and state levels; and related studies in community and regional social, natural, and economic systems. Contextual projects include, among many subject areas, urban design, transportation, regional planning, community redevelopment and preservation, housing, real estate, and economic development. The program emphasizes planning policies, and design for the physical environment. Current specializations include growth management and transportation, urban design, housing, community and economic development, information technologies for planning, and environmental planning. Students are also encouraged to take advantage of the extensive faculty, course offerings, and other resources available in the College of Design, Construction, and Planning and throughout the University. The Department has two research centers: The Geo-facilities Planning and Information Center (GeoPlan), the Center for Building Better Communities (CBBC), and the Center for Health and the Built Environment (CHBE).

The curriculum is supported by an extensive GIS laboratory, and a visual aid library. Variation from the core studies may be approved by the Department if the student can demonstrate education and experience to the faculty that would support such an alternative. The M.A.U.R.P. degree is accredited by the Planning Accreditation Board, a joint undertaking of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning, for having achieved the highest applicable standards for graduate education in the field of planning. Graduates of the Department are prepared to practice urban and regional planning.

The Department of Urban and Regional Planning and the College of Law offer a joint degree program (see *Requirements for Master's Degrees* in the *General Information* section of this catalog). Areas of concentration with other programs in the Graduate School may be developed to meet the individual needs of students. In addition to course work the student is required to complete an internship with a public or private planning office and the student must complete a thesis.

The Department reserves the right to retain student work for purposes of record, exhibition, or instruction.

Other

Urban and Regional Planning

College

[College of Design, Construction, and Planning](#)

Department/School

[Urban and Regional Planning Department](#)

Degrees Offered with a Major in Urban and Regional Planning

Master of Arts in Urban and Regional Planning

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- URP 6276: Internet Geographic Information Systems
- URP 6277: Land Use Visioning and Analysis
- URP 6610: International Development Planning
- URP 6711: Transportation and Land Use Coordination
- URP 6743: Affordable Housing Law
- URP 6855: Urban Form in Cities throughout the Americas
- URP 6887: Advanced Defensible Space in Urban Design

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Human Development and Organizational Studies in Education Department

Director: Linda B. Eldridge

Graduate Coordinator: Patricia Ashton

Complete faculty listing by department: [Follow this link.](#)

Programs leading to the Master of Arts in Education (M.A.E.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees are offered through this school with programs in Counseling and Counselor Education, Educational Leadership, Higher Education Administration, Marriage and Family Counseling, Mental Health Counseling, Research and Evaluation Methodology, School Counseling and Guidance, and Student Personnel in Higher Education.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

More information can be found at our website: <http://education.ufl.edu/hdose>

Other

Counseling and Counselor Education

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Counseling and Counselor Education Program

The doctoral program in Counseling and Counselor Education prepares students for careers in academia and advanced clinical and administrative positions. Our program aligns with the University of Florida mission to prepare the next generation of scholars and professional leaders. Thus, our doctoral program is a good fit for individuals who want to fulfill the roles of counselor educators – research, writing, teaching, service, securing external funding to support scholarship, assuming professional leadership positions, etc. The doctoral program is ideally suited for individuals with previously earned masters and at least two years of clinical experience. Doctoral students complete coursework, a doctoral clinical internship, participate in teaching and supervision, and conduct research leading to the completion of a dissertation. Students average 3 to 5 years to complete the doctorate, many of whom balance work and school commitments.

Degrees Offered with a Major in Counseling and Counselor Education

Doctor of Education

without a concentration

concentration in Marriage and Family Counseling

concentration in Mental Health Counseling

concentration in School Counseling and Guidance

Doctor of Philosophy

without a concentration

concentration in Marriage and Family Counseling

concentration in Mental Health Counseling

concentration in School Counseling and Guidance

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration

- EDA 7979: Advanced Research
- EDA 7980: Research for Doctoral Dissertation
- EDA 7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling

- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
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- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Educational Leadership

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Educational Leadership Program Information

Programs in Educational Leadership provide opportunities for professional educators and those who would like to be professional educators to receive quality coursework, mentorship, and degrees in educational administration, policy, and leadership. The programs provided are ideal for vice principals, principals, district directors and supervisors, assistant superintendents, school business managers, teachers aspiring to acquire administrative roles within the K-12 system and educational leaders of other organizations.

Degrees Offered with a Major in Educational Leadership

Doctor of Education

without a concentration

concentration in Educational Policy

Doctor of Philosophy

without a concentration

concentration in Educational Policy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
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- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
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- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
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- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
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- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments
- EDH6503: Resource Development in Higher Education
- EDH6632: Current Issues in Community College Leadership

- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
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- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
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- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
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- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
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- MHS 7804: Group Supervision in Agency Counseling
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- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
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- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Higher Education Administration

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Higher Education Administration Program Information

The Higher Education Administration program has been established for students aspiring to become community college and university administrators, deans, presidents, and professors. America's community colleges and universities will soon face a critical leadership gap. As the baby boom generation approaches retirement age, many provosts, deans and college presidents are getting ready to add "emeritus" to their titles. As a result, openings in top leadership positions are expected to exceed the number of appropriately-trained individuals for many years to come.

The University of Florida's College of Education is helping fill the gap. Our nationally recognized Higher Education Administration Program prepares future leaders for their roles in administrative positions in higher education. Our faculty and alumni shaped the community and state college system as we know it, and our graduates have gone on to crucial administrative positions at two- and four- year institutions. Join us in shaping the future of higher education.

Degrees Offered with a Major in Higher Education Administration

Doctor of Education

without a concentration

concentration in Educational Policy

Doctor of Philosophy

without a concentration

concentration in Educational Policy

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work

- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
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- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
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- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments
- EDH6503: Resource Development in Higher Education
- EDH6632: Current Issues in Community College Leadership
- EDH6637: Crisis Management in Higher Education
- EDH6931: Special Topics in Higher Education
- EDH6935: Seminar in College Student Personnel Administration
- EDH6945: Practicum in College Teaching I
- EDH6946: Practicum in College Teaching II
- EDH6947: Practicum in Student Personnel
- EDH7225: Seminar: Curriculum in Higher Education
- EDH7405: The Law and Higher Education
- EDH7505: The Financing of Higher Education
- EDH7631: Administration of Instruction in Higher Education
- EDH7634: Student Affairs Administration in Higher Education
- EDH7635: Higher Education Administration
- EDH7916: Contemporary Research on Higher Education
- EDH7942: Group Supervision in Student Personnel
- EDH7948: Internship in Student Personnel
- EDS6140: Supervision of Instruction
- MHS5005: Introduction to Counseling
- MHS6000: Assessment and Treatment of Family Violence
- MHS6020: Counseling in Community Settings
- MHS6061: Spiritual Issues in Multicultural Counseling
- MHS6071: Diagnosis and Treatment of Mental Disorders
- MHS6200: Assessment in Counseling
- MHS6340: Career Development
- MHS6401: Counseling Theories and Applications
- MHS6421: Play Counseling and Play Process with Children
- MHS6428: Multicultural Counseling
- MHS6430: Introduction to Family Counseling
- MHS6440: Marriage Counseling
- MHS6450: Substance Abuse Counseling
- MHS6464: Introduction to Disaster Mental Health Counseling
- MHS6466: Trauma and Crisis Intervention: Theory and Practice
- MHS6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS6468: Multicultural issues in disaster mental health counseling
- MHS6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS6471: Sexuality and Mental Health
- MHS6480: Developmental Counseling Over the Life Span
- MHS6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS6500: Group Counseling: Theories and Procedures
- MHS6602: Educational Mediation
- MHS6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS6720: Professional Identity and Ethics in Counseling
- MHS6831: Supervision for a Split Internship
- MHS6905: Individual Work
- MHS6910: Supervised Research
- MHS6940: Supervised Teaching
- MHS6971: Research for Master's Thesis
- MHS7402: Brief Therapy

- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Marriage and Family Counseling

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Marriage and Family Counseling Program Information

The Marriage & Family Counseling/Therapy program specialization emphasizes an eco-systemic approach to understanding human problems and generating solution opportunities: Students learn to moderate solution-oriented conversations among interested parties (i.e., stakeholders) who are invited to seek "double descriptions" of mutual concerns and problems, to listen carefully to each other, to entertain and invent multiple solution possibilities, and to construct new narratives of cooperation and commitment.

Degrees Offered with a Major in Marriage and Family Counseling

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

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- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
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- EDA6192: Educational Leadership: The Individual
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- EDA6215: Communications in Educational Leadership
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- EDA6232: Public School Law
- EDA6242: Public School Finance
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- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
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- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
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- EDH 7948: Internship in Student Personnel
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- MHS 6000: Assessment and Treatment of Family Violence

- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
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Mental Health Counseling

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Mental Health Counseling Program Information

The M.Ed./Ed.S. and M.AE./Ed.S. program in Mental Health Counseling is designed to equip students with the pre-professional competencies required for Registered Intern status and, after a minimum number of years of post-degree supervised clinical experience, (a) licensure in the State of Florida as Mental Health Counselors and (b) clinical membership in NBCC's Academy of Certified Clinical Mental Health Counselors. Additionally, some students may choose to continue their studies in a doctoral program. These students often elect the thesis option (M.A.E.) to complete their studies.

Degrees Offered with a Major in Mental Health Counseling

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

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- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation

- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics

- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Research and Evaluation Methodology

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Research and Evaluation Methodology Program Information

The mission of the Research and Evaluation Methodology program is to generate, evaluate, apply and disseminate knowledge about educational research methodology, to prepare exemplary educational research methodologists, and to collaborate with others to provide methodology for the advancement of educational research. This mission aligns with College of Education's and University of Florida's missions because it results in research strategies for knowledge discovery to solve critical educational and human problems in a diverse global community.

- Learn to evaluate educational programs, analyze educational data, develop assessment instruments, and conduct research about the efficacy of research methodologies.
- Work as an educational researcher, an educational data analyst, or a psychometrician (an expert in testing and assessment).
- Find jobs in testing companies; research and evaluation companies; research centers; and assessment centers at universities, school districts, and state and federal agencies.
- Complete a master's degree (M.A.E. or M.Ed.) in two years or a Ph.D. in four years with classes focusing on research methodology, statistics applied to education, program evaluation, and psychometrics.
- We admit students with some undergraduate research experience. Our students come from a variety of backgrounds, including psychology, sociology, statistics, mathematics, mathematics education, political science, marketing, economics, and engineering.

Degrees Offered with a Major in Research and Evaluation Methodology

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Research and Evaluation Methodology

- EDF 5441: Assessment in General and Exceptional Student Education
- EDF 6113: Educational Psychology: Human Development
- EDF 6211: Educational Psychology: General
- EDF 6215: Educational Psychology: Learning Theory
- EDF 6232: Principles of Learning and Instructional Practice
- EDF 6400: Quantitative Foundations of Education Research Overview
- EDF 6401: Educational Statistics
- EDF 6402: Quantitative Foundations in Educational Research: Inferential Statistics
- EDF 6403: Quantitative Foundations of Educational Research

- EDF 6434: Educational Measurement
- EDF 6436: Theory of Measurement
- EDF 6471: Survey Design and Analysis in Educational Research
- EDF 6475: Qualitative Foundations of Educational Research
- EDF 6481: Quantitative Research Methods in Education
- EDF 6905: Individual Study
- EDF 6910: Supervised Research
- EDF 6938: Special Topics
- EDF 6940: Supervised Teaching
- EDF 6941: Practicum in Educational Research
- EDF 6971: Research for Master's Thesis
- EDF 7117: Affective Development and Education
- EDF 7405: Advanced Quantitative Foundations of Educational Research
- EDF 7412: Structural Equation Models
- EDF 7435: Rating Scale Design and Analysis in Educational Research
- EDF 7439: Item Response Theory
- EDF 7474: Multilevel Models
- EDF 7479: Qualitative Data Analysis: Approaches and Techniques
- EDF 7483: Qualitative Data Collection: Approaches and Techniques
- EDF 7486: Methods of Educational Research
- EDF 7491: Evaluation of Educational Products and Systems
- EDF 7639: Research in Educational Sociology
- EDF 7931: Seminar in Educational Research
- EDF 7932: Multivariate Analysis in Educational Research
- EDF 7979: Advanced Research
- EDF 7980: Research for Doctoral Dissertation
- EDP 6052: Cognitive Psychology Applied to Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education

- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

School Counseling and Guidance

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

School Counseling and Guidance Program Information

The M.Ed./Ed.S. and M.AE./Ed.S. program in School Counseling is designed to equip students with the pre-professional competencies required for Florida Department of Education Certification in School Counseling. The 72-credit hour program provides students with the specialized knowledge and skills required for placements as school counselors in public or private elementary, middle, or secondary schools.

Students enrolled in the School Counseling program, a state-approved and NCATE (National Council for the Accreditation of Teacher Education) and CACREP (Council for the Accreditation of Counseling and Related Educational Programs) accredited school counselor preparation program, must provide passing scores for all pertinent sections of the Florida Teacher Certification Examination (FTCE) including the General Knowledge test (math, English language skills, reading comprehension, and essay), the Professional Education examination, and the Subject Area Examination in Guidance and Counseling K-12 prior to graduation from the program. Questions about this requirement or any other certification related questions may be addressed to the College of Education Office of Student Services.

Degrees Offered with a Major in School Counseling and Guidance

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision

- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research
- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
- EDG7222: Curriculum: Theory and Research
- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments
- EDH6503: Resource Development in Higher Education
- EDH6632: Current Issues in Community College Leadership
- EDH6637: Crisis Management in Higher Education
- EDH6931: Special Topics in Higher Education
- EDH6935: Seminar in College Student Personnel Administration
- EDH6945: Practicum in College Teaching I
- EDH6946: Practicum in College Teaching II
- EDH6947: Practicum in Student Personnel
- EDH7225: Seminar: Curriculum in Higher Education
- EDH7405: The Law and Higher Education
- EDH7505: The Financing of Higher Education
- EDH7631: Administration of Instruction in Higher Education
- EDH7634: Student Affairs Administration in Higher Education
- EDH7635: Higher Education Administration
- EDH7916: Contemporary Research on Higher Education
- EDH7942: Group Supervision in Student Personnel
- EDH7948: Internship in Student Personnel
- EDS6140: Supervision of Instruction
- MHS5005: Introduction to Counseling
- MHS6000: Assessment and Treatment of Family Violence
- MHS6020: Counseling in Community Settings
- MHS6061: Spiritual Issues in Multicultural Counseling
- MHS6071: Diagnosis and Treatment of Mental Disorders
- MHS6200: Assessment in Counseling
- MHS6340: Career Development
- MHS6401: Counseling Theories and Applications
- MHS6421: Play Counseling and Play Process with Children
- MHS6428: Multicultural Counseling
- MHS6430: Introduction to Family Counseling
- MHS6440: Marriage Counseling
- MHS6450: Substance Abuse Counseling
- MHS6464: Introduction to Disaster Mental Health Counseling
- MHS6466: Trauma and Crisis Intervention: Theory and Practice
- MHS6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS6468: Multicultural issues in disaster mental health counseling
- MHS6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS6471: Sexuality and Mental Health
- MHS6480: Developmental Counseling Over the Life Span
- MHS6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS6500: Group Counseling: Theories and Procedures
- MHS6602: Educational Mediation
- MHS6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS6720: Professional Identity and Ethics in Counseling
- MHS6831: Supervision for a Split Internship
- MHS6905: Individual Work
- MHS6910: Supervised Research
- MHS6940: Supervised Teaching
- MHS6971: Research for Master's Thesis
- MHS7402: Brief Therapy
- MHS7407: Advanced Counseling Theories
- MHS7431: Advanced Family Counseling

- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Student Personnel in Higher Education

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Student Personnel in Higher Education Program Information

The University of Florida Student Personnel in Higher Education program is a master's program designed to prepare students to enter Student Affairs leadership positions in two- and four-year institutions of higher education. The program integrates academic coursework with practitioner-based experience. The SPHE master's degree consists of 36 credit hours of core classes and 10 credit hours of supervised practicum and internship experiences (total = 46 credit hours). Students enter the graduate program in the fall semester as members of a cohort group. The group provides support and builds a sense of community for the students. All students are assigned a faculty advisor at the time of admission.

The student affairs profession is increasingly diverse and is engaged in a variety of activities and programs. The emphasis in UF's master's degree program in SPHE is upon the promotion, design, and assessment of student learning in a variety of campus and community settings.

Degrees Offered with a Major in Student Personnel in Higher Education

Master of Arts in Education

Master of Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations

- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health

- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Special Education, School Psychology and Early Childhood Studies Department

Director: Jean Crockett

Complete faculty listing by department: [Follow this link.](#)

The School of Special Education, School Psychology, and Early Childhood Studies offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 3 areas of specialization: Special Education; School Psychology; and Early Childhood Studies. Programs are accredited by the Florida Department of Education and approved by the National Council for Accreditation of Teacher Education (NCATE). The School Psychology program is approved by the NCATE and the National Association of School Psychologists (NASP). The Ph.D. program in School Psychology is accredited by the American Psychological Association (APA).

Other

Early Childhood Education

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in Early Childhood Education

Master of Arts in Education

Master of Education

Early Childhood Education Courses

- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6940: Supervised Teaching
- EEC 7056: Early Childhood Policy and Advocacy
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEC 7979: Advanced Research

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6946: Practicum in Early Childhood Education
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6053: Foundations of Special Education
- EEX 6098: Students with Disabilities in Higher Education
- EEX 6233: Designing Instruction for Inclusive Classrooms
- EEX 6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX 6785: Introduction to Education-Healthcare Transition
- EEX 6786: Transdisciplinary and Transition Services in Special Education
- EEX 6788: Methods for Integrating Education-Health Care Transition
- EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX 6841: Practicum in Special Education: Mild Disabilities
- EEX 6863: Supervised Practice in Special Education
- EEX 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

School Psychology

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in School Psychology

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

School Psychology Courses

- SPS 6052: Issues and Problems in School Psychology
- SPS 6191: Psychoeducational Assessment I
- SPS 6192: Psychoeducational Assessment II
- SPS 6193: Academic Assessment & Intervention
- SPS 6195: Developmental Psychopathology
- SPS 6197: Psychoeducational Assessment III
- SPS 6410: Direct Interventions I: Applied Behavior Analysis for School Psychologists
- SPS 6707: Interventions in School Psychology II: Cognitive Behavioral Interventions
- SPS 6708: Interventions in School Psychology III: System Level Interventions for Children and Youths
- SPS 6815: Law and Ethics in Psychology
- SPS 6937: Special Topics in School Psychology
- SPS 6941: Practicum in School Psychology
- SPS 6942: School Psychology Practicum II
- SPS 6945: Advanced Practicum in School Psychology
- SPS 7205: School Psychology Consultation
- SPS 7931: Seminar in School Psychology
- SPS 7949: Internship in School Psychology
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6946: Practicum in Early Childhood Education
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6053: Foundations of Special Education
- EEX 6098: Students with Disabilities in Higher Education
- EEX 6233: Designing Instruction for Inclusive Classrooms
- EEX 6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX 6785: Introduction to Education-Healthcare Transition
- EEX 6786: Transdisciplinary and Transition Services in Special Education

- EEX6788: Methods for Integrating Education-Health Care Transition
- EEX6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX6841: Practicum in Special Education: Mld Disabilities
- EEX6863: Supervised Practice in Special Education
- EEX7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

Special Education

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in Special Education

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Special Education Courses

- EEX5940: Supervised Student Teaching in Special Education
- EEX6053: Foundations of Special Education
- EEX6072: Accessing Academic and Social Communities for Students with Disabilities
- EEX6125: Interventions for Language and Learning Disabilities
- EEX6219: Reading Assessment and Intervention for Students with Disabilities
- EEX6222: Evaluation in Special Education
- EEX6233: Designing Instruction for Inclusive Classrooms
- EEX6234: Assessment, Curriculum, and Instruction for Students with Severe Disabilities
- EEX6249: Advanced Strategies for Teaching Students with Disabilities
- EEX6661: Teaching and Managing Behavior for Student Learning
- EEX6750: Families and Transition for Students with Disabilities
- EEX6786: Transdisciplinary and Transition Services in Special Education
- EEX6835: Practicum in Special Education: Severe Disabilities
- EEX6841: Practicum in Special Education: Mld Disabilities
- EEX6863: Supervised Practice in Special Education

- EEX6905: Individual Work
- EEX6910: Supervised Research
- EEX6936: Special Topics
- EEX6940: Supervised Teaching
- EEX6971: Research for Master's Thesis
- EEX6973: Project in Lieu of Thesis
- EEX6296: Differentiated Instruction
- EEX7303: Inquiry in Special Education: Analysis of the Literature
- EEX7304: Introduction to Field of Inquiry in Special Education
- EEX7526: Grant Writing Seminar in Education
- EEX7787: School Improvement for All Students
- EEX7865: Internship: Special Education
- EEX7428: Teacher Education in Special Education
- EEX7934: Seminar: Trends in Special Education
- EEX7979: Advanced Research
- EEX7980: Research for Doctoral Dissertation
- EGI6051: Education of the Gifted Child
- EGI6245: Program Development for the Gifted

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EEC6205: Early Childhood Curriculum
- EEC6304: Creativity in the Early Childhood Curriculum
- EEC6525: Issues in Child Care Administration
- EEC6615: Early Childhood Education: Background and Concepts
- EEC6905: Individual Work
- EEC6910: Supervised Research
- EEC6933: Special Topics
- EEC6946: Practicum in Early Childhood Education
- EEC7617: Early Childhood Assessment & Evaluation
- EEC7666: Theory and Research in Early Childhood Studies
- EEX6053: Foundations of Special Education
- EEX6098: Students with Disabilities in Higher Education
- EEX6233: Designing Instruction for Inclusive Classrooms
- EEX6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX6785: Introduction to Education-Healthcare Transition
- EEX6786: Transdisciplinary and Transition Services in Special Education
- EEX6788: Methods for Integrating Education-Health Care Transition
- EEX6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX6841: Practicum in Special Education: Mild Disabilities
- EEX6863: Supervised Practice in Special Education
- EEX7709: Social-Emotional Learning & Play in Early Childhood
- SPS7980: Research for Doctoral Dissertation

School of Teaching and Learning

Director: E. Bondy.

Graduate Coordinator: S. G. Terzian.

Complete faculty listing by department: [Follow this link.](#)

The School of Teaching and Learning (<http://education.ufl.edu/school>) offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis or project in lieu of thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees in curriculum and instruction. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 10 areas of specialization: curriculum, teaching, and teacher education; educational technology; elementary education; mathematics education; language and literacy education (including children's literature, English education, ESOL/bilingual education, language arts, and reading education); science and environmental education; social foundations of education; social studies education; and teacher leadership for school improvement.

The nationally recognized Proteach graduate program leads to the M.Ed. degree and state certification as a classroom teacher. Unified Elementary ProTeach admits undergraduates who complete the five-year program with a master's degree. Secondary Proteach (English, Science, Social Studies) prepares teachers who have completed a bachelor's degree in the discipline they will teach. Prospective elementary teachers who already hold a bachelor's degree in a non-education field may want to consider the School's SITE program (Site-based Implementation of Teacher Education), which leads to the M.Ed. degree in curriculum and instruction. Students may apply to the state for alternative certification.

Beyond the Graduate School and College of Education admission requirements, students should have academic preparation and teaching experience appropriate to the program being pursued. Students having deficiencies in their preparation will be required to follow a program to remove such deficiencies. A limited amount of support is available for graduate studies through fellowships, scholarships, research assistantships, and teaching assistantships.

Other

Curriculum and Instruction (CCD)

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Curriculum and Instruction

Doctor of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods

- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Curriculum and Instruction (ISC)

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Curriculum and Instruction

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics

- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School

- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Elementary Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Elementary Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications

- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
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- SCE 6117: Science Education in the Elementary School
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- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
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Social Studies Education

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- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

English Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

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Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
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- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
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- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
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- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
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Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum

- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
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Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
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- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
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Mathematics Education

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- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Reading Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Reading Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction

- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes

- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

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- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
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- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
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- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
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Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
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Mathematics Education

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- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
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- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
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- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
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- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties

- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
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- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
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Social Studies Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Social Studies Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
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Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Other

Agricultural and Biological Engineering (Engineering)

College

- [College of Agricultural and Life Sciences](#)
- [College of Engineering](#)

Department/School

[Agricultural and Biological Engineering Department](#)

Agricultural and Biological Engineering Program

The degrees of Master of Science, Master of Engineering, and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Additional information can also be found on the graduate studies pages on the department website at www.abe.ufl.edu.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Degrees Offered with a Major in Agricultural and Biological Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Agricultural and Biological Engineering Courses

- ABE 5015: Empirical Models of Crop Growth and Yield Response
- ABE 5038: Recent Developments and Applications in Biosensors
- ABE 5152: Electro-Hydraulic Circuits and Controls
- ABE 5332: Advanced Agricultural Structures
- ABE 5442: Advanced Agricultural Process Engineering
- ABE 5643C: Biological Systems Modeling
- ABE 5646: Biological and Agricultural Systems Simulation
- ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials
- ABE 5663: Advanced Applied Microbial Biotechnology
- ABE 5707C: Agricultural Waste Management
- ABE 5815C: Food and Bioprocess Engineering Design
- ABE 6005: Applied Control for Automation and Robots
- ABE 6031: Instrumentation in Agricultural Engineering Research
- ABE 6035: Advanced Remote Sensing: Science and Sensors
- ABE 6037C: Remote Sensing in Hydrology
- ABE 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6265: Vadose Zone Modeling
- ABE 6266: Nanotechnology in Water Research
- ABE 6615: Advanced Heat and Mass Transfer in Biological Systems
- ABE 6644: Agricultural Decision Systems
- ABE 6816: Food and Bioprocess Sterilization
- ABE 6905: Individual Work in Agricultural and Biological Engineering
- ABE 6910: Supervised Research
- ABE 6931: Seminar
- ABE 6933: Special Topics in Agricultural and Biological Engineering
- ABE 6940: Supervised Teaching
- ABE 6971: Research for Master's Thesis
- ABE 6972: Research for Engineer's Thesis
- ABE 6974: Nonthesis Project
- ABE 6986: Applied Mathematics in Agricultural and Biological Engineering
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- AOM5334C: Agricultural Chemical Application Technology
- AOM5431: GIS and Remote Sensing in Agriculture and Natural Resources

- AOM5435: Advanced Precision Agriculture
- AOM6905: Individual Work in Agricultural Operations Management
- AOM6932: Special Topics in Agricultural Operations Management
- CWR 6536: Stochastic Subsurface Hydrology
- PKG 5003: Advanced Distribution and Transport Packaging
- PKG 5006: Advanced Packaging Principles
- PKG 5105: Advanced Consumer Products Packaging
- PKG 5206C: Advanced Package Decoration
- PKG 5256C: Advanced Analytical Packaging Methods
- PKG 6100: Advanced Computer Tools for Packaging
- PKG 6905: Individual Work in Packaging
- PKG 6932: Special Topics in Packaging Sciences

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Biomedical Engineering Department

Chair: C. Schmidt

Graduate Coordinator: D. Hintenlang

Complete faculty listing by department: [Follow this link.](#)

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine. The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research. The BME Department currently focuses in: neural engineering, biomaterials, tissue engineering, biomechanics, nanomedicine, biomedical imaging and medical physics. A concentration in Medical Physics is available at both the M.S. and Ph.D. level and prepares students for clinical or research careers in medical imaging or radiation therapy. The Medical Physics concentration is fully accredited by CAMPEP. Additional information on admissions requirements, faculty, and research projects is available at: <http://www.bme.ufl.edu>.

BME graduate students are admitted directly through the BME Department. The BME Graduate Academic Committee reviews and makes all decisions regarding admission. Each student's research adviser must hold a Graduate Faculty appointment in the BME Department. Supervisory committees for BME students normally include at least one member from the College of Engineering and one from the College of Medicine to emphasize the need for a clinical focus in the research.

Other

Biomedical Engineering

College

[College of Engineering](#)

Department/School

[Biomedical Engineering Department](#)

Biomedical Engineering Program Information

The master's degree (thesis or nonthesis) requires at least 30 semester hours. The Ph.D. degree requires at least 90 semester credit hours beyond the bachelor's degree. No more than 30 hours of a master's degree from another institution will be transferred to the Ph.D. degree. If a student holds a master's degree in a discipline different from the doctoral program, the master's work will not be counted toward the doctoral degree unless the BME Department successfully petitions the Dean of the Graduate School. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Complete BME program details and courses available are listed in the Biomedical Engineering Graduate Guidelines, on the [BME web site](#) (which also offers information on available areas of study). Graduate-level courses in either the College of Engineering or the College of Medicine may be applied toward the BME degree programs with the approval of the supervisory committee chair and the graduate coordinator.

Combined program: Biomedical Engineering also offers a combined bachelor's/master's degree program in collaboration with the other departments in the College of Engineering. This program allows qualified students to earn both a bachelor's degree and a master's degree within 5 years for a net savings of 1 year. Contact the BME academic services office for more information or see <http://www.bme.ufl.edu/academics/combined>.

Degrees Offered with a Major in Biomedical Engineering

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Medical Physics

Master of Engineering

Master of Science

without a concentration

concentration in Medical Physics

Courses

- BME 5052L: Biomedical Engineering Laboratory
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BME 5407: Molecular Biomedical Engineering
- BME 5500: Biomedical Instrumentation
- BME 5703: Statistical Methods for Biomedical Engineering
- BME 5704: Advanced Computational Methods for Biomedical Engineering
- BME 5937: Special Topics
- BME 6010: Clinical Preceptorship
- BME 6324: Stem Cell Engineering
- BME 6330: Cell and Tissue Engineering
- BME 6360: Neural Engineering
- BME 6502: Introduction to Medical Imaging
- BME 6505: Advanced Diagnostic Radiological Physics
- BME 6522: Biomedical Multivariate Signal Processing
- BME 6533: Radiologic Anatomy
- BME 6534: Advanced Therapeutic Radiological Physics
- BME 6535: Radiological Physics, Measurements and Dosimetry
- BME 6590: Medical Physics
- BME 6591: Therapeutic Radiological Physics I
- BME 6592: Therapeutic Radiological Physics II
- BME 6593: Therapeutic Radiological Physics III
- BME 6705: Mathematical Modeling of Biological and Physiological Systems
- BME 6905: Individual Work in Biomedical Engineering

- BME 6907: BME Project
- BME 6910: Supervised Research
- BME 6936: Biomedical Engineering Seminar
- BME 6938: Special Topics in Biomedical Engineering
- BME 6940: Supervised Teaching
- BME 6971: Research for Master's Thesis
- BME 7979: Advanced Research
- BME 7980: Research for Doctoral Dissertation
- EEE 6504: Adaptive Signal Processing
- EEE 6512: Image Processing and Computer Vision
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology
- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure

College of Engineering and College of Medicine Courses

- [Click here for information about available College of Engineering courses.](#)

Chemical Engineering Department

Chair: R. Dickinson.

Graduate Coordinator: A. Chauhan.

Complete faculty listing by department: [Follow this link.](#)

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering.

Other

Chemical Engineering

College

[College of Engineering](#)

Department/School

[Chemical Engineering Department](#)

Degrees Offered with a Major in Chemical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- BME 6221: Biomolecular Cell Mechanics
- BME 6322: Dynamics of Cellular Processes
- ECH 5708: Disinfection, Sterilization, and Preservation
- ECH 5938: Topics in Colloid Science
- ECH 6126: Thermodynamics of Reaction and Phase Equilibria
 - ECH 6207
- ECH 6270: Continuum Basis of Chemical Engineering
- ECH 6272: Molecular Basis of Chemical Engineering
- ECH 6285: Transport Phenomena
- ECH 6326: Computer Control of Processes
- ECH 6506: Chemical Engineering Kinetics
- ECH 6526: Reactor Design and Optimization
- BME 6644: Pharmacokinetics
- ECH 6709: Electrochemical Engineering Fundamentals and Design
- ECH 6726: Interfacial Phenomena I
- ECH 6727: Interfacial Phenomena II
- ECH 6843: Experimental Basis of Chemical Engineering
- ECH 6847: Mathematical Basis of Chemical Engineering
- ECH 6851: Impedance Spectroscopy
- ECH 6905: Individual Work
- ECH 6910: Supervised Research
- ECH 6926: Graduate Seminar
- ECH 6937: Topics in Chemical Engineering I
- ECH 6939: Topics in Chemical Engineering III
- ECH 6940: Supervised Teaching
- ECH 6971: Research for Master's Thesis
 - ECH 6XXX
- ECH 7938: Advanced Special Chemical Engineering Topics for Doctoral Candidates
- ECH 7979: Advanced Research
- ECH 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Civil and Coastal Engineering Department

Chair: K. Hatfield

Graduate Coordinator: A. Drescher

Complete faculty listing by department: [Follow this link.](#)

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in [CGN 6974](#) for civil engineering majors, or [EOC 6905](#) for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Other

Civil Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Civil Engineering Program

The civil engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy. The master's degree in civil engineering is also offered through the Electronic Delivery of Graduate Engineering (EDGE) program, which is a distance learning program delivered either via streaming video or DVD directly to the students. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Civil Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CCE 5035: Construction Planning and Scheduling
- CCE 5405: Construction Equipment and Procedures
- CCE 6037: Civil Engineering Operations I
- CCE 6038: Innovative Construction Techniques
- CCE 6505: Computer Applications in Construction Engineering
- CCE 6507: Computer Applications in Construction Engineering II
- CCE 6516: Topics in Airborne Laser Mapping Technology
- CEG 5105: Geotechnical Engineering
- CEG 5114: Advanced Geotechnical Aspects of Landfill Design
- CEG 5115: Foundation Design
- CEG 5205C: Insitu Measurement of Soil Properties
- CEG 5206: Geosensing I
- CEG 5805: Ground Modification Design
- CEG 6015: Advanced Soil Mechanics
- CEG 6116: Advanced Shallow Foundation Design
- CEG 6117: Advanced Deep Foundation Design
- CEG 6201: Experimental Determination of Soil Properties
- CEG 6207: Geosensing II
- CEG 6405: Seepage in Soils
- CEG 6505: Numerical Methods of Geomechanics
- CEG 6515: Earth Retaining Systems and Slope Stability
- CES 5010: Probabilistic and Stochastic Methods in Civil Engineering
- CES 5116: Finite Elements in Civil Engineering
- CES 5325: Design of Highway Bridges
- CES 5606: Topics in Steel Design
- CES 5607: Behavior of Steel Structures
- CES 5715: Prestressed Concrete
- CES 5726: Design of Concrete Systems
- CES 5801: Design and Construction in Timber
- CES 5835: Design of Reinforced Masonry Structures
- CES 6106: Advanced Structural Analysis
- CES 6108: Structural Dynamics
- CES 6165: Computer Methods in Structural Engineering
- CES 6551: Design of Folded Plates and Shells
- CES 6588: Protective Structures
- CES 6590: Impact Engineering
- CES 6591: Applied Protective Structures
- CES 6592: Retrofit Protective Structures
- CES 6593: Advanced Protective Structures
- CES 6706: Advanced Reinforced Concrete
- CES 6855: Condition Assessment of Structures

- CGN 5606: Public Works Management
- CGN 5715: Experimentation and Instrumentation in Civil Engineering Materials Research
- CGN 6155: Civil Engineering Practice I
- CGN 6156: Construction Engineering II
- CGN 6505: Properties, Design and Control of Concrete
- CGN 6506: Bituminous Materials
- CGN 6525: Sustainable Materials
- CGN 6905: Special Problems in Civil Engineering
- CGN 6910: Supervised Research
- CGN 6936: Civil Engineering Graduate Seminar
- CGN 6940: Supervised Teaching
- CGN 6971: Research for Master's Thesis
- CGN 6972: Research for Engineer's Thesis
- CGN 6974: Master of Engineering or Engineer Degree Report
- CGN 7979: Advanced Research
- CGN 7980: Research for Doctoral Dissertation
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6236: Sediment Transport I
- CWR 6255: Diffusive and Dispersive Transport
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- TTE 5305: Advanced Transportation Systems Analysis
- TTE 5006: Advanced Urban Transportation Planning
- TTE 5256: Traffic Engineering
- TTE 5805: Geometric Design of Transportation Facilities
- TTE 5835: Pavement Design
- TTE 5837: Pavement Management Systems
- TTE 6205: Freeway Operations and Simulation
- TTE 6259: Urban Streets Simulation and Control
- TTE 6267: Traffic Flow Theory
- TTE 6306: Computational Methods in Transportation Engineering
- TTE 6315: Highway Safety Analysis
- TTE 6505: Discrete Choice Analysis
- TTE 6606: Urban Transportation Models

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM 5816: Intermediate Fluid Dynamics
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6441: Water Resources Planning and Management
- ENV 6508: Wetland Hydrology
- ENV 6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation

- EGN 6039: Engineering Leadership

Coastal and Oceanographic Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Coastal and Oceanographic Engineering Program

The coastal and oceanographic engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy degree. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Coastal and Oceanographic Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Coastal and Oceanographic Engineering Courses

- EGM5816: Intermediate Fluid Dynamics
- EOC 5860: Port and Harbor Engineering
- EOC 6196: Littoral Processes
- EOC 6430: Coastal Structures
- EOC 6850: Numerical Simulation Techniques in Coastal and Ocean Engineering
- EOC 6905: Individual Study in Coastal and Oceanographic Engineering
- EOC 6932: Selected Field and Laboratory Problems
- EOC 6934: Advanced Topics in Coastal and Oceanographic Engineering
- EOC 6939: Graduate Seminar
- EOC 6971: Research for Master's Thesis
- EOC 6972: Research for Engineer's Thesis
- EOC 7979: Advanced Research
- EOC 7980: Research for Doctoral Dissertation
- OCP 5293: Coastal Processes
- OCP 6050: Physical Oceanography
- OCP 6165: Ocean Waves I: Linear Theory
- OCP 6165L: Ocean Waves Laboratory

- OCP 6167: Ocean Waves II: Nonlinear Theory
- OCP 6168: Data Analysis Techniques for Coastal and Ocean Engineers
- OCP 6169: Random Sea Analysis
- OCP 6295: Estuarine and Shelf Hydrodynamics I
- OCP 6297: Coastal and Estuarine Sediment Transport
- OCP 6298: Coastal Sediment Transport Processes

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM 5816: Intermediate Fluid Dynamics
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6441: Water Resources Planning and Management
- ENV 6508: Wetland Hydrology
- ENV 6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Computer and Information Science and Engineering Department

[College of Engineering](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics

- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Other

Computer Engineering

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Computer Engineering Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science and the Doctor of Philosophy degrees in Computer Engineering through the College of Engineering. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in Algorithms, Computer Vision, Databases, Graphics and Modeling, Machine Learning, Networks, and Systems, with active labs in Bioinformatics; Computational Science and Intelligence; Vision, Graphics and Medical Imaging; Database Systems Research and Development; Data Science Research; Mobile and Pervasive Computing; Human-Centered Computing and Cybersecurity.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:

<http://cise.ufl.edu/admissions/grad>

Degrees Offered with a Major in Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

without a concentration

concentration in Digital Arts and Sciences

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation

- EGN 6039: Engineering Leadership

Digital Arts and Sciences (Engineering)

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Digital Arts and Sciences (Engineering) Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science degree in Digital Arts and Sciences through the College of Engineering. Minimum requirements for this degree are given in the [Graduate Degrees](#) section of this catalog.

This specialized program integrates engineering and design and was created for students with an interest in video games, human-computer interaction, 3D modeling and animation, virtual reality, and computer graphics. The curriculum includes core computer science with a special emphasis on human-centered computing and provides students the flexibility to focus on both computer science and design, and to create software that is computationally complex, user friendly and aesthetically pleasing.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:

<http://cise.ufl.edu/admissions/grad>

Degrees

Master of Science

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing

- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Electrical and Computer Engineering Department

Chair: J. Harris.

Graduate Coordinators: G. Bosman, J. McNair

Complete faculty listing: [Follow this link.](#)

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For more information about our program, please visit the link below.

Other

Electrical and Computer Engineering

College

[College of Engineering](#)

Department/School

[Electrical and Computer Engineering Department](#)

Electrical and Computer Engineering Program Information

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in computer engineering, devices, electromagnetics and energy systems, electronics, and signals and systems.

Graduate students in the Department of Electrical and Computer Engineering have bachelor's degrees from many areas: electrical engineering, other engineering disciplines, chemistry, mathematics, physics, and other technical fields. The Department of Electrical and Computer Engineering offers both thesis and nonthesis options for the master's degrees.

In the *thesis option* a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of [EEL 6971](#) (Research for Master's Thesis). While the Graduate School sets the minimum requirements, the supervisory committee determines the appropriate number of thesis hours a student shall be required to take for the thesis. Other course requirements include a minimum of 18 hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis). No more than 6 hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)) may be counted toward the degree.

In the nonthesis option a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)). The course requirements include a minimum of 21 semester credit hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis).

The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and master's degree with a saving of one semester. Qualified students may begin their master's programs while seniors, counting up to 12 hours of specified electrical and computer engineering graduate courses for both bachelor's and master's degree requirements. Bachelor's/master's program admission requirements are (1) satisfaction of Graduate School admission requirements for the master's degree, (2) an upper-division (undergraduate) GPA of at least 3.3, and (3) completion of at least 7 EEL core courses and 2 EEL laboratories. Students with a GPA between 3.3 and 3.59 can double count up to 6 hours, while students with a GPA of 3.6 or higher can double count up to 12 hours.

All prospective doctoral students must take the written part of the Ph.D. qualifying examination within the first year of enrollment. Other requirements for the doctoral degree, as well as requirements for master's and engineer degrees, are given in the Electrical and Computer Engineering Department's Graduate Guidelines (see <http://www.ece.ufl.edu/content/graduate-academics>) and in the front section of this catalog

The following course listing indicates the major areas of faculty interest. Special topics courses [EEL 5934](#) and [EEL 6935](#) cover a wide variety of subjects for which there are no present courses.

Degrees Offered with a Major in Electrical and Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- CNT 6805: Network Science and Applications
- EEE 5317C: Introduction to Power Electronics
- EEE 5320: Bipolar Analog IC Design
- EEE 5322: VLSI Circuits and Technology
- EEE 5364: Fundamentals of Data Converters
- EEE 5400: Future of Microelectronics Technology
- EEE 5405: Microelectronic Fabrication Technologies
- EEE 5426: Introduction to Nanodevices
- EEE 6287: Brain Machine Interface Engineering
- EEE 6321: MOS Analog IC Design
- EEE 6323: Advanced VLSI Design
- EEE 6325: Computer Simulation of Integrated Circuits and Devices
- EEE 6328C: Microwave IC Design
- EEE 6374: Radio Frequency (RF) Integrated Circuits and Technologies
- EEE 6382: Semiconductor Physical Electronics
- EEE 6390: VLSI Device Design
- EEE 6397: Semiconductor Device Theory I
- EEE 6402: Nonclassical Si-Based Nanoscale CMOS Devices
- EEE 6428: Computational Nanoelectronics
- EEE 6431: Carbon Nanotubes
- EEE 6460: Advanced Microsystem Technology
- EEE 6465: Design of MEMS Transducers
- EEL 5182: State Variable Methods in Linear Systems
- EEL 5225: Principles of Micro-Electro-Mechanical Transducers
- EEL 5400: Airborne Sensors and Instrumentation
- EEL 5401: Airborne Laser Scanning: Data Processing and Analysis
- EEL 5441: Fundamentals of Photonics
- EEL 5462: Advanced Antenna Systems
- EEL 5490: Lightning
- EEE 5502: Foundations of Digital Signal Processing
- EEE 5544: Noise in Linear Systems
- EEE 5556: Electronic Countermeasures
- EEL 5666C: Intelligent Machines Design Laboratory
- EEL 5718: Computer Communications
- EEL 5721: Reconfigurable Computing
- EEL 5737: Principles of Computer System Design
- EEL 5764: Computer Architecture
- EEL 5840: Elements of Machine Intelligence
- EEL 5905: Individual Work
- EEL 5934: Special Topics in Electrical Engineering

- EEL 6065: Electrical & Computer Engineering Technical Writing
- EEL 6264: Advanced Electric Energy Systems I
- EEL 6265: Advanced Electric Energy Systems II
- EEL 6443: Integrated and Fiber Optics
- EEL 6486: Electromagnetic Field Theory and Applications I
- EEL 6487: Electromagnetic Field Theory and Applications II
- EEE 6504: Adaptive Signal Processing
- EEL 6507: Queuing Theory and Data Communications
- EEL 6509: Wireless Communication
- EEE 6503: Digital Filtering
- EEL 6532: Information Theory
- EEL 6533: Statistical Decision Theory
- EEL 6535: Digital Communications
- EEL 6537: Spectral Estimation
- EEL 6550: Error Correction Coding
- EEE 6512: Image Processing and Computer Vision
- EEL 6528: Digital Communications with Software-defined Radios
- EEL 6555: Signal Processing for Active Sensing
- EEE 6586: Automatic Speech Processing
- EEL 6588: Wireless Ad Hoc Networks
- EEL 6591: Wireless Networks
- EEL 6614: Modern Control Theory
- EEL 6617: Linear Multivariable Control
- EEL 6619: Robust Control Systems
- EEL 6686: Embedded Systems Seminar
- EEL 6706: Fault-Tolerant Computer Architecture
- EEL 6763: Parallel Computer Architecture
- EEL 6769: Hardware-Software Interactions: Nonnumeric Processing
- EEL 6814: Neural Networks for Signal Processing
- EEL 6825: Pattern Recognition and Intelligent Systems
- EEL 6841: Machine Intelligence and Synthesis
- EEL 6871: Autonomic Computing
- EEL 6892: Virtual Computers
- EEL 6905: Individual Work
- EEL 6910: Supervised Research
- EEL 6933: Electrical and Computer Engineering Graduate Seminar
- EEL 6935: Special Topics in Electrical Engineering
- EEL 6940: Supervised Teaching
- EEL 6971: Research for Master's Thesis
- EEL 6972: Research for Engineer's Thesis
- EEL 7979: Advanced Research
- EEL 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Environmental Engineering Sciences Department

Director: K. Hatfield

Graduate Coordinator: P. Chadik

Complete faculty listing [Follow this link](#).

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering; Systems Ecology and Ecological Engineering; and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas. Please visit the link below for more information about our program in Environmental Engineering Sciences.

Other

Environmental Engineering Sciences

College

[College of Engineering](#)

Department/School

[Environmental Engineering Sciences Department](#)

Environmental Engineering Sciences Program Information

Graduate study is offered leading to the degrees Master of Engineering, Master of Science, and Doctor of Philosophy in the field of environmental engineering sciences. Our graduate research and education areas are

Air Resources

- Monitoring of air pollutants: indoor, ambient, industrial, and occupational
- Monitoring methodology and instrumentation development
- Formation and fate of air pollutants
- Air quality modeling
- Air pollution control: system, process and materials
- Sustainability of air quality
- Health effects and environmental impact of air pollutant

Biogeochemical Systems

- Green Engineering
- Microbiology of Natural and Engineered Systems
- Environmental Fate and Transport of Pollutants in Soils and Aquatic Systems
- Biological and Chemical Remediation of Contaminated Systems
- Environmental Toxicology and Nanotoxicology
- Effects of Climate and Land Use Changes on Biogeochemical Cycles
- Aqueous Geochemistry and Water Treatment

Environmental Nanotechnology

- Manufacturing and tailoring of nanomaterials and nanodevices for application in environmental and human health research
- Environmental fate and transport of nanomaterials
- Environmental implications of nanomaterials

Solid and Hazardous Waste Management

- Bioreactor Landfills
- Combustion and Thermal Treatment Residuals
- Contaminated Soil Characterization and Treatment
- Construction and Demolition Debris
- Electronic Waste
- Hazardous Waste
- Landfill Design and Operations
- Landfill Gas and Leachate
- Recycling and Beneficial Use of Wastes
- Treated Wood
- Waste Characterization and Leaching
- Solid Waste Management in Developing Countries

Stormwater, Water Supply and Wastewater

- Fundamental characterization of aqueous and particulate-phase contaminants including emerging contaminants: representative ambient monitoring methodology and load quantification.
- Sourcing and generation of aqueous and particulate phase contaminants, physics and chemistry of contaminant transport and fate.
- Water contaminant control: systems, unit operation and processes, and materials development, in particular innovative mass transfer materials and low impact development materials.
- Water reuse as part of the urban water cycle: volumetric and contaminant load impacts
- Unit operation and process modeling: scalable physical models and computational fluid dynamics (CFD).
- Integrated physical, chemical, biological and thermal treatment phenomena for water cycle components.
- Coupling fundamental monitoring and material balance testing with urban water modeling
- Fundamental and applied studies of physical-chemical water treatment processes, such as adsorption, coagulation, ion exchange, and oxidation, for a wide range of water qualities including surface water, groundwater, membrane concentrate, landfill leachate, and human urine.
- Innovative applications of ion exchange for water treatment.
- Fundamental studies in aquatic chemistry with a focus on the role of natural organic matter.
- Fundamental and applied studies of adsorption and photocatalysis, including surface optimization
- Bottom up integrated urban water system simulation and optimization

Sustainability Science & Engineering

- Rational design of nanomaterial through acute and full-life-cycle toxicity assessment
- Life cycle assessment calculations and comparisons of alternative energy and materials options
- Industrial ecology
- Corporate water resources sustainability
- Campus green building codes
- Green laboratory techniques
- Operation of buildings to meet green energy requirements

Systems Ecology and Ecological Engineering

- Ecological Engineering
- Energy Analysis
- Wetlands ecosystem research
- Ecological Modeling
- Estuarine Systems

Water Resources

- Contaminant transport and fate
- Decision support systems
- Ecohydrology and hydrologic restoration
- Hydrology

- Stormwater control
- Water resources planning and management
- Water conservation
- Urban water infrastructure

Graduate students can also combine one or more of the above areas with specialties in other departments at the University of Florida.

The department participates in the hydrologic sciences interdisciplinary concentration that is offered through 9 departments in 3 colleges. This concentration is described under Interdisciplinary Graduate Studies.

Direct admission into the Master of Science and Doctor of Philosophy programs requires a bachelor's degree in engineering or in a basic science such as chemistry, geology, physics, biology, or mathematics. Persons with a degree in a nontechnical field may also be admitted into this program after completing appropriate technical courses. Direct admission into the Master of Engineering program requires a bachelor's degree in engineering.

Requirements for a master's degree normally take 12 to 24 months to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, and may be completed in 3 years, but often takes longer, depending on prior academic experience.

Concurrent program: The department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree, with a savings of 12 credits.

Joint program: The Environmental Engineering Sciences Department, in partnership with the Levin College of Law, offers a joint program leading to the M.S. or M.E. degree in environmental engineering sciences and the Juris Doctor degree. Twelve credits of appropriate course work are counted toward both degrees.

Degrees Offered with a Major in Environmental Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CEG 5206: Geosensing I
- CWR 6115: Surface Hydrology
- CWR 6116: Advanced Surface Hydrology
- CWR 6252: Environmental Biochemistry of Trace Metals
- CWR 6536: Stochastic Subsurface Hydrology
- CWR 6537: Contaminant Subsurface Hydrology
- EES 5105: Advanced Wastewater Microbiology
- EES 5107: Ecological and Biological Systems
- EES 5207: Environmental Chemistry
- EES 5245: Water Quality Analysis
- EES 5305C: Ecological and General Systems
- EES 5306: Energy Analysis
- EES 5307: Ecological Engineering
- EES 5315: Ecology and the Environment
- EES 5415: Environmental Health
- EES 6007: Advanced Energy and Environment
- EES 6009: Ecological Economics
- EES 6026C: Environmental Systems Dynamics
- EES 6028: Spatial Modeling Using Geographic Information Systems
- EES 6051: Advanced Environmental Planning and Design
- EES 6135: Aquatic Microbiology
- EES 6136: Aquatic Autotrophs
- EES 6137: Aquatic Heterotrophs
- EES 6140: Biology of Exotic Species
- EES 6371: Environmental Meteorology and Oceanography
- EES 6208: Principles of Water Chemistry I
- EES 6209: Principles of Water Chemistry II
- EES 6225: Atmospheric Chemistry
- EES 6246: Advanced Water Analysis
- EES 6301: Comparative Approaches in Systems Ecology
- EES 6308C: Wetland Ecology
- EES 6309: Wetland Treatment Systems
- EES 6318: Principles of Industrial Ecology
- EES 6335: Springs Ecosystems
- EES 6356: Estuarine Systems
- EES 6405: Environmental Toxicology
- ENV 6439: Activated Carbon: Environmental Design and Application
- ENV 5072: Pollution Control and Prevention
- ENV 5075: Environmental Policy
- ENV 5105: Foundations of Air Pollution
- ENV 5305: Advanced Solid Waste Treatment Design
- ENV 5306: Municipal Refuse Disposal
- ENV 5518: Field Methods in Environmental Hydrology

- ENV5520: Fluid Flow in Environmental Systems
- ENV5555: Wastewater Treatment
- ENV5565: Hydraulic Systems Design
- ENV6050: Advanced Pollutant Transport
- ENV6052: Immiscible Fluids in Porous Media
- ENV6116: Air Pollution Sampling and Analysis
- ENV6126: Air Pollution Control Design
- ENV6130: Aerosol Mechanics
- ENV6146: Atmospheric Dispersion Modeling
- ENV6215: Health Physics
- ENV6216: Radioactive Wastes
- ENV6301: Advanced Solid Waste Containment Design
- ENV6435: Advanced Water Treatment Process Design
- ENV6435C: Advanced Water Treatment Process Design
- ENV6435L: Water Treatment Process Design Laboratory
- ENV6437: Advanced Wastewater System Design
- ENV6438: Advanced Potable Water Systems Design
- ENV6441: Water Resources Planning and Management
- ENV6416: Advanced Stormwater Control Systems
- ENV6508: Wetland Hydrology
- ENV6510: Groundwater Restoration
- ENV6511: Biological Wastewater Treatment
- ENV6556: Advanced Waste Treatment Operations
- ENV6617: Principles of Green Engineering Design and Sustainability
- ENV6905: Individual Work
- ENV6910: Supervised Research
- ENV6916: Nonthesis Project
- ENV6932: Special Problems in Environmental Engineering
- ENV6935: Graduate Environmental Engineering Seminar
- ENV6971: Research for Master's Thesis
- ENV7979: Advanced Research
- ENV7980: Research for Doctoral Dissertation

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM5816: Intermediate Fluid Dynamics
- ENV5518: Field Methods in Environmental Hydrology
- ENV5565: Hydraulic Systems Design
- ENV6050: Advanced Pollutant Transport
- ENV6052: Immiscible Fluids in Porous Media
- ENV6441: Water Resources Planning and Management
- ENV6508: Wetland Hydrology
- ENV6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Industrial and Systems Engineering Department

Chair: J. Geunes.

Graduate Coordinator: J. C. Smith and P. Momcilovic.

Complete faculty listing by department: [Follow this link.](#)

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Engineer degree and the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., Engineer, and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

Other

Industrial and Systems Engineering

College

[College of Engineering](#)

Department/School

[Industrial and Systems Engineering Department](#)

Degrees Offered with a Major in Industrial and Systems Engineering

Doctor of Philosophy

without a concentration

concentration in Quantitative Finance

Engineer

Master of Engineering

Master of Science

Industrial and Systems Engineering Courses

- EIN 6227: Advanced Quality Management and Engineering for Business Processes
- EIN 6336: Advanced Production and Inventory Control
- EIN 6357: Advanced Engineering Economy
- EIN 6367: Facilities Layout and Location
- EIN 6392: Manufacturing Management
- EIN 6905: Special Problems
- EIN 6910: Supervised Research
- EIN 6918: Graduate Seminar
- EIN 6940: Supervised Teaching
- EIN 6971: Research for Master's Thesis
- EIN 6972: Research for Engineer's Thesis
- EIN 7933: Special Problems

- EIN 7979: Advanced Research
- EIN 7980: Research for Doctoral Dissertation
- ESI 5236: Reliability Engineering
- ESI 6162C: Advanced Industrial Applications of Microprocessors
- ESI 6314: Deterministic Methods in Operations Research
- ESI 6321: Applied Probability Methods in Engineering
- ESI 6323: Models for Supply Chain Management
- ESI 6341: Intro to Stochastic Optimization
- ESI 6355: Decision Support Systems for Industrial and Systems Engineers
- ESI 6417: Linear Programming and Network Optimization
- ESI 6418: Linear Programming Extensions and Applications
- ESI 6420: Fundamentals of Mathematical Programming
- ESI 6429: Introduction to Nonlinear Optimization
- ESI 6448: Discrete Optimization Theory
- ESI 6449: Integer Programming
- ESI 6470: Principles of Manufacturing Systems Engineering
- ESI 6492: Global Optimization
- ESI 6529: Digital Simulation Techniques
- ESI 6533: Advanced Simulation Design and Analysis
- ESI 6546: Stochastic Modeling and Analysis
- ESI 6552: Systems Architecture
- ESI 6553: Systems Design
- ESI 6555: Systems Management
- ESI 6912: Advanced Topics in ISE

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Materials Science and Engineering Department

Chair: S. Phillpot

MSE Graduate Coordinator: J. J. Mecholsky, Jr.

NE Graduate Coordinator: E. Dugan

Complete faculty listing by department: [Follow this link.](#)

The Department of Materials Science and Engineering offers the Master of Science and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

The faculties of the Department of Materials Science and Engineering (MSE) of the University of Florida (UF) and the University of Roma Tor Vergata (URTV) have approved a cooperative degree program in Materials Science and Engineering culminating in a Doctor of Philosophy degree, awarded by both universities. Contact the Department for details.

Other

Materials Science and Engineering

College

[College of Engineering](#)

Department/School

[Materials Science and Engineering Department](#)

Degrees Offered with a Major in Materials Science and Engineering

Doctor of Philosophy

without a concentration

in concentration in Clinical and Translational Science

Master of Engineering

Master of Science

Courses

- EMA5008: Particle Science and Technology: Theory and Practice
- EMA5095: Critical Analysis of Research in Materials Science & Engineering
- EMA5108: Vacuum Science and Technology
- EMA5365: Biomimetic Synthesis
- EMA6001: Properties of Materials - A Survey
- EMA6005: Thin and Thick Films
- EMA6105: Fundamentals and Applications of Surface Science
- EMA6106: Advanced Phase Diagrams
- EMA6107: High Temperature Materials
- EMA6109: Physical Chemistry of High Temperature Materials
- EMA6110: Electron Theory of Solids for Materials Scientists I
- EMA6111: Electron Theory of Solids for Materials Scientists II
- EMA6114: Advanced Materials Principles 2
- EMA6128: Materials Microstructures
- EMA6136: Diffusion, Kinetics, and Transport Phenomena
- EMA6165: Polymer Physical Science
- EMA6166: Polymer Composites
- EMA6226: Synthesis and Properties of Metallic Nanostructures
- EMA6227: Advanced Mechanical Metallurgy II
- EMA6265: Mechanical Properties of Polymers
- EMA6313: Advanced Materials Principles I
- EMA6315: Colloidal Hydrodynamics
- EMA6316: Materials Thermodynamics
- EMA6319: Applied Colloid and Interfacial Chemistry for Engineers
- EMA6412: Synthesis and Characterization of Electronic Materials
- EMA6416: Organic Electronics
- EMA6445: Electroceramics
- EMA6446: Solid State Ionics
- EMA6448: Ceramic Processing
- EMA6461: Polymer Characterization
- EMA6507: Scanning Electron Microscopy and Microanalysis

- EMA 6507C
- EMA 6507L: Scanning Electron Microscopy and Microanalysis Lab
- EMA 6510: Survey of Materials Analysis Techniques
- EMA 6512C: X-ray Scattering for Thin Film Analysis
- EMA 6518: Transmission Electron Microscopy
- EMA 6518L: Transmission Electron Microscopy Laboratory
- EMA 6519L: Specialized Research Techniques in Materials Science
- EMA 6540: Fundamentals of Crystallography
- EMA 6541: Applied Crystallography and Powder Diffraction
- EMA 6580: Science of Biomaterials I
- EMA 6581C: Polymeric Biomaterials
- EMA 6589: Mechanical Behavior of Biomaterials
- EMA 6590: Advances in Biomaterials and Tissue Engineering for Healthcare
- EMA 6591: Clinical Applications of Biomaterials and Tissue Engineering
- EMA 6616: Advanced Electronic Materials Processing
- EMA 6625: Advanced Metals Processing
- EMA 6667: Polymer Processing
- EMA 6715: Fracture of Brittle Materials
- EMA 6803: Classical Methods in Computational Materials Science
- EMA 6804: Quantum Methods in Computational Materials Science
- EMA 6805: Mathematical Methods in Materials Science I
- EMA 6806: Mathematical Methods in Materials Science II
- EMA 6808: Error Analysis and Optimization Methodologies in Materials Research
- EMA 6905: Individual Work in Materials Science and Engineering
- EMA 6910: Supervised Research
- EMA 6936: Seminar in Materials Science and Engineering
- EMA 6938: Special Topics in Materials Science and Engineering
- EMA 6971: Research for Master's Thesis
 - EMA 6xxxA
 - EMA 6xxxB
 - EMA 6XXXL
- EMA 7979: Advanced Research
- EMA 7980: Research for Doctoral Dissertation
- ENU 6805: Introduction to Nuclear Reactor Materials

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn

Graduate Coordinator: D. W. Mikolaitis

Complete faculty listing by department: [Follow this link.](#)

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), Engineer, and Doctor of Philosophy in aerospace engineering and mechanical engineering. Minimum requirements for these degrees are given in the *General Information* section of this catalog. Additional information can be found at <http://www.mae.ufl.edu/graduate>. Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of challenging problems. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Aerospace Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Aerospace Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics
- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
- EAS 6910: Supervised Research
- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
- EGM5533: Applied Elasticity and Advanced Mechanics of Solids
- EGM5584: Biomechanics of Soft Tissue
- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III
- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials
- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
- EGM7980: Research for Doctoral Dissertation
- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics
- EML 5124: Two-Phase Flow and Boiling Heat Transfer
- EML 5131: Combustion
- EML 5215: Analytical Dynamics I
- EML 5223: Structural Dynamics
- EML 5224: Acoustics
- EML 5233: Failure of Materials in Mechanical Design
- EML 5311: Control System Theory
- EML 5318: Computer Control of Machines and Processes
- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers

- EML 5515: Gas Turbines and Jet Engines
- EML 5516: Design of Thermal Systems
- EML 5526: Finite Element Analysis and Application
- EML 5595: Mechanics of the Human Locomotor System
- EML 5598: Orthopedic Biomechanics
- EML 5605: Advanced Refrigeration
- EML 5714: Introduction to Compressible Flow
- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II
- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I
- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control
- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
- EML 6451: Energy Conversion
- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Mechanical Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Mechanical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics
- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
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- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
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- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III
- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials
- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
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- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics
- EML 5124: Two-Phase Flow and Boiling Heat Transfer
- EML 5131: Combustion
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- EML 5224: Acoustics
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- EML 5311: Control System Theory
- EML 5318: Computer Control of Machines and Processes
- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers
- EML 5515: Gas Turbines and Jet Engines
- EML 5516: Design of Thermal Systems
- EML 5526: Finite Element Analysis and Application
- EML 5595: Mechanics of the Human Locomotor System
- EML 5598: Orthopedic Biomechanics
- EML 5605: Advanced Refrigeration
- EML 5714: Introduction to Compressible Flow
- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II
- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I
- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control

- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
- EML 6451: Energy Conversion
- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Nuclear and Radiological Engineering Department

Chair: D. Hintenlang

Graduate Coordinator: W. Bolch

Complete faculty listing: [Follow this link.](#)

The Department offers the degrees of Master of Science, Master of Engineering, and Doctor of Philosophy in nuclear engineering sciences with emphases in nuclear power engineering, medical physics, and health physics. Complete descriptions of the minimum requirements for these degrees are provided in the *General Information* section of this catalog.

The medical physics and health physics options are offered through interdepartmental programs in cooperation with the College of Medicine (see the *Health Physics and Medical Physics* description under *Interdisciplinary Graduate Studies*).

Combined Program — The Department also offers a B.S.N.E./M.S. degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students may begin their master's program while seniors counting 12 hours of specified nuclear engineering sciences graduate courses for both the bachelor's and master's degree requirements. Seniors admitted to the combined program are eligible for teaching and research assistantships. Program admission requirements are (1) satisfaction of Graduate School admission requirements for a master's degree, (2) an upper-division (undergraduate) GPA of at least 3.6, and (3) completion of specified bachelor's degree requirements.

The graduate program has two major programs, Nuclear Engineering and Medical Physics. Specific areas of research and study in Nuclear Engineering include advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security. The Medical Physics program is a CAMPEP accredited program designed to meet the professional requirements for a career in clinical service or research and development. Areas of Medical Physics study and research include diagnostic medical imaging, radiation therapy, nuclear medicine imaging, and radiation dosimetry.

The requirement for admission to the graduate program in nuclear engineering sciences is a bachelor's degree in an approved program in engineering or in the sciences. Students applying to the Medical Physics program should have completed the equivalent of at least a minor in physics. If the student's background is considered deficient for the planned course of study, an articulation program of background courses will be required.

Depending on professional objectives, the student may select a non-thesis option for the MS degree and substitute 8 credits of graduate-level course work, of which at least 6 credits are in nuclear engineering sciences, including a 4-credit (minimum) special project, [ENU 6936](#). Completion of 32 credits will meet the minimum requirements for the non-thesis MS degree.

Normally, the requirements for a master's degree can be completed in 12 months. Students in the medical physics option usually take 21 to 24 months to complete the master's degree, which requires 40-42 credit hours. For a master's degree in health physics, a student must complete 42 hours of credit. If articulation work is required, it may take longer, depending upon the extent of the student's deficiency.

Other

Nuclear Engineering Sciences

College

[College of Engineering](#)

Department/School

[Nuclear and Radiological Engineering Department](#)

Degrees Offered with a Major in Nuclear Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

Master of Engineering

Master of Science

Courses

- ENU 5142: Reliability and Risk Analysis for Nuclear Facilities
- ENU 5176L: Principles of Nuclear Reactor Operations Laboratory
- ENU 5186: Nuclear Fuel Cycles
- ENU 5196: Nuclear Reactor Power Plant System Dynamics and Control
- ENU 5516L: Nuclear Engineering Laboratory II
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology
- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 5705: Advanced Concepts for Nuclear Energy
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6053: Radiation Interaction Basics and Applications II
- ENU 6061: Survey of Medical Radiological Physics
- ENU 6106: Nuclear Reactor Analysis I
- ENU 6107: Nuclear Reactor Analysis II
- ENU 6126: Fundamentals of Reactor Kinetics
- ENU 6135: Nuclear Thermal Hydraulics
- ENU 6623: Radiation Dosimetry
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6651: Clinical Rotation in Radiation Therapy
- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6655: Advanced Diagnostic Radiological Physics
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure
- ENU 6835: Nuclear Fuels
- ENU 6905: Individual Work
- ENU 6910: Supervised Research
- ENU 6935: Nuclear and Radiological Engineering Seminar
- ENU 6936: Special Projects in Nuclear and Radiological Engineering Sciences
- ENU 6937: Special Topics in Nuclear and Radiological Engineering Sciences
- ENU 6971: Research for Master's Thesis
- ENU 6972: Research for Engineer's Thesis
- ENU 7979: Advanced Research
- ENU 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Applied Physiology and Kinesiology Department

Chair: S. Dodd

Graduate Coordinator: E. Christou

Complete faculty listing by department: [Follow this link.](#)

The **Ph.D. program** is offered with concentrations in biobehavioral science and exercise physiology. Students in the biobehavioral science concentration specialize in one of four areas: biomechanics, exercise / performance psychology, motor control / learning, or sports medicine. These interdisciplinary concentrations focus on preparing students as researchers with a blend of course work and research training.

A program leading to the **Master of Science** degree in applied physiology and kinesiology (thesis and non-thesis options) is also offered. Areas of concentration for the master's program include athletic training/sports medicine, biobehavioral science, clinical exercise physiology, exercise physiology, and human performance. The thesis option gives the student an opportunity to study, conduct research, and prepare a thesis in an area of special interest. The non-thesis option offers the student a specialization in a selected area of study, with additional work in other areas. A comprehensive written examination is required for this option, as is a capstone internship experience. Requirements for these degrees are given in the *General Information* section of this catalog.

Athletic training/sports medicine: This concentration provides comprehensive academic preparation, research, and clinical experience in the areas of injury prevention, assessment, treatment, rehabilitation, and therapeutic modalities.

Biobehavioral Science: This thesis mandatory concentration is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in one of several related disciplines: biomechanics, motor control and learning, and exercise and performance psychology. Each area of specialization is briefly described below.

- *Biomechanics:* The specialization in biomechanics draws from the fields of neuroscience, engineering, and medicine. The course work and training include kinematics and kinetics of movement. Course work also includes anatomy/kinesiology, biomechanics, engineering, neuroscience, medicine, psychology, physical therapy, and statistics.
- *Motor learning / control:* This interdisciplinary specialization draws on experiences and a knowledge base in the movement and sport sciences, cognitive sciences, and physical therapy. Students are prepared to conduct research and provide expertise in traditional motor performance and learning settings.
- *Exercise / performance psychology:* This area of specialization provides the basis for understanding and influencing the underlying thought processes and attitudes that will ultimately determine the performance of individuals involved in sport, exercise, and other achievement oriented activities. The primary emphasis is to develop the scientific background and skills necessary for doctoral training and research.

Clinical exercise physiology: The purpose of this non-thesis program is to give students the opportunity to develop advanced knowledge and competencies in Exercise Physiology. Clinical Exercise Physiologists typically practice in hospitals, clinics and wellness centers as part of a health care team that administers tests and develops programs of exercise, counseling, and education for patients with cardiopulmonary, metabolic, and musculoskeletal diseases.

Exercise physiology: This thesis mandatory area of concentration is concerned with the scientific study of how the various physiological systems of the human body respond to physical activity. It is a multidisciplinary field with strong ties to the basic life sciences and medicine, and application to clinical, normal, and athletic populations.

Human performance: This non-thesis master's concentration merges a range of specializations within the Department into a curriculum that provides educational experiences to graduate students interested in studying the factors that determine human performance in both athletic and nonathletic domains. This flexible approach allows students to focus on specific applications that best meet their individual interests. Human performance incorporates components such as nutrition, psychology, motor behavior, and physiology that are applicable to athletic and clinical populations.

Other

Applied Physiology and Kinesiology

College

[College of Health and Human Performance](#)

Department/School

[Applied Physiology and Kinesiology Department](#)

Applied Physiology and Kinesiology Program Information

Graduate study in Applied Physiology and Kinesiology (APK) is focused on research in concentration areas including athletic training, biomechanics; motor control and learning, exercise physiology; and exercise and performance psychology. Graduate students are exposed to and directly involved in research covering the full multidisciplinary spectrum of human potential from young to old, fit to unfit, healthy to diseased, able-bodied to disabled, and from the casual recreational participant to the high-level athlete. In addition to human performance issues, APK faculty and students study the immediate and lasting effects of exercise and its use in disease prevention and rehabilitation.

For more information, please see our website: <http://apk.hhp.ufl.edu/index.php/current-students/prospective-students>.

Degrees Offered with a Major in Applied Physiology and Kinesiology

Master of Science

without a concentration

concentration in Athletic Training/Sports Medicine

concentration in Biobehavioral Science

concentration in Clinical Exercise Physiology

concentration in Exercise Physiology

concentration in Human Performance

Applied Physiology and Kinesiology Departmental Courses

- APK 5127: Assessment in Exercise Science
- APK 5404: Sport Psychology
- APK 6111L: Practicum in Exercise Physiology
- APK 6116C: Physiological Bases of Exercise and Sport Sciences
- APK 6118: Neuromuscular Adaptation to Exercise
- APK 6126: Cardiopulmonary Pathologies
- APK 6128: EKG Interpretation
- APK 6205C: Nature and Bases of Motor Performance
- APK 6206: Planning Motor Actions
- APK 6210: Controlling Motor Actions
- APK 6225: Biomechanical Instrumentation
- APK 6226C: Biomechanics of Human Motion
- APK 6406: Exercise Psychology
- APK 6408: Performance Enhancement
- APK 6410: Seminar in Exercise Psychology
- APK 6415: Seminar in Sport Psychology: Current Topics
- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- APK 7107: Cardiovascular Exercise Physiology
- APK 7108: Environmental Stress Exercise Physiology
- APK 7117: Exercise Metabolism
- APK 7124: Free Radicals in Aging, Exercise and Disease
- APK 7129: Pulmonary Function during Exercise
- ATR 6124: Clinical Anatomy for the Exercise Sciences
- ATR 6145: Human Pathophysiology for the Exercise Sciences
- ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity
- ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity
- ATR 6304: Rehabilitation and Modalities of Athletic Injuries
- ATR 6624: Athletic Training Research and Technology I
- ATR 6625: Athletic Training Research and Technology II
- ATR 6934: Seminar in Athletic Training
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis

Department of Health Education & Behavior

Chair: Jalie A. Tucker

Graduate Coordinator: Christine B. Stopka

Complete faculty listing by department: [Follow this link.](#)

The Department of Health Education & Behavior offers a Doctor of Philosophy (Ph.D.) in Health and Human Performance with a concentration in Health Behavior, a non-thesis 30-credit hour Master of Science and a 36-credit Master of Science (M.S.) in Health Education and Behavior. Requirements for the Ph.D. and M.S. degrees are given in the *General Information* section of this catalog.

The Ph.D. degree program trains health behavior researchers for academic positions in federal health agencies such as the Centers for Disease Control and Prevention and the National Institutes of Health for postdoctoral research fellowships and for the private sector.

The 30-credit hour, non-thesis M.S. degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector. Full-time students can complete this M.S. option in one year. This degree may also give students unique and distinguishing training experiences when applying to professional schools such as law, medicine, physician assistant, dentistry, chiropractic, osteopathy, nursing, occupational therapy, and physical therapy.

The 36-credit hour project in lieu of thesis, and the 36-credit hour thesis options are designed for students interested in developing research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically can complete these options in about 4 semesters.

The Department also offers an accelerated B.S./M.S. program in health education and behavior to enable students to receive both B.S. and M.S. degrees with a reduction of 12 credits (about one semester of course work).

Students who complete a graduate degree program in the Department of Health Education & Behavior acquire a range of skills required to research, plan, implement, and evaluate health promotion policies and programs aimed at improving the health and well-being of individuals, families, and communities. Specific skills include:

- Conducting needs and capacity assessments to identify health priorities
- Planning, implementing, and evaluating health promotion policies and programs
- Conducting research on questions associated with health problems and their determinants and health promotion policies and programs
- Administering and managing health promotion programs
- Advocating for health promotion policies and programs in schools, communities, health care facilities, and worksites
- Developing social marketing and health communication messages and campaigns
- Researching and developing social media and new media-based health promotion applications
- Serving as a resource person for health information and referrals
- Using a variety of teaching-learning strategies appropriate to the target audience and setting
- Writing scholarly and professional articles
- Working collaboratively with public and private agencies, nongovernmental organizations (NGOs) and the private sector to achieve the goal of a healthier population.

This degree prepares the health promotion specialists and health behavior scientists to work in:

- Local, state, and federal health, education and social agencies
- Nongovernmental health organizations
- Schools and universities
- Healthcare settings
- Private sector

Sample position titles for individuals with this degree include:

- Health education specialist
- Health promotion specialist
- Public health adviser or public health analyst
- Health promotion coordinator or health promotion consultant
- Campus health educator or patient health educator,
- Health communication specialist
- Wellness specialist
- Wellness promotion coordinator
- Prevention specialist

For additional information, visit <http://www.bhp.ufl.edu/heh>.

Other

Health Education and Behavior

College

[College of Health and Human Performance](#)

Department/School

[Department of Health Education & Behavior](#)

Health Education and Behavior Program Information

The 30-credit hour, non-thesis in the Master of Science in Health Education and Behavior degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector.

The 30-credit, non-thesis Pre-Professional Health Science Track is designed for students seeking a career in health care. This option allows you to choose a minimum of 12 credits of basic science elective coursework which are prerequisites for dental, medical, nursing, occupational therapy, physician assistant, physical therapy, and other health professional programs including 6 credits of undergraduate science courses (3000-4999). This degree track prepares students who are interested in graduate studies in the health sciences and or pursuing health professional training. Full-time students can complete the 30-credit hour M.S. options in one year.

The 36-credit Thesis Option, and the 36-credit Project In Lieu Of Thesis Option, in the Master of Science in Health Education and Behavior degree programs are designed for students interested in improving their research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically complete these options in about 4 semesters.

For more information, please see our website: <http://heb.hhp.ufl.edu/index.php/academia/graduate-programs/masters-programs>.

Degrees Offered with a Major in Health Education and Behavior

Master of Science

Health Education and Behavior Departmental Courses

- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- HSC 5135: Emotional Health Education
- HSC 5138: Human Sexuality
- HSC 5142: Drug Education
- HSC 5315C: Teaching Health in Elementary Schools
- HSC 5536C: Medical Terminology for the Health Professions
- HSC 5576: Nutrition Education for Special Populations
- HSC 5606: Spirituality and Health
- HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health
- HSC 5626: Minority Health Issues
- HSC 5657: Health and End-of-Life Issues
- HSC 5925: Seminar in Health Education
- HSC 5956: Writing for Professional Publications
- HSC 6037: Philosophy and Principles of Health Education
- HSC 6216: Environmental Health
- HSC 6235: Patient Health Education
- HSC 6318: Planning Health Education Programs
- HSC 6506: Epidemiology
- HSC 6567: Health Promotion and Programming in Gerontology
- HSC 6571: Contemporary Issues in Health Promotion
- HSC 6575: Women's Health Issues
- HSC 6595: HIV/AIDS Education
- HSC 6603: Theories of Health Behavior and Practice in Health Education
- HSC 6605: Scientific Foundations of Holistic Health
- HSC 6625: Trends in International Health
- HSC 6629: Health Promotion for Priority Populations
- HSC 6637: Social Marketing and Health
- HSC 6646: Community Health Methods in Injury Prevention & Control
- HSC 6665: Health Communication
- HSC 6667: Health Communication Programs
- HSC 6668: Interpersonal Communication and Health
- HSC 6695: Worksite Health Promotion
- HSC 6712: Evaluating Health Education Programs
- HSC 6735: Research Methods in Health Education
- HSC 6850: Internship in Health Education
- HSC 6904: Readings in Health Education
- HSC 6905: Independent Study
- HSC 6910: Supervised Research
- HSC 6935: Current Topics in Health Education
- HSC 6940: Supervised Teaching
- HSC 6971: Research for Master's Thesis
- HSC 6973: Project in Lieu of Thesis

- HSC 7904: Advanced Readings in Health Education
- HSC 7905: Advanced Independent Study in Health Education
- HSC 7937: Advanced Seminar in Health Education
- PEQ 5127: Advanced Instructors of Adapted Aquatics
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- PHC 6105: Health Promotion Policy and Practice

Tourism, Recreation, and Sport Management Department

[College of Health and Human Performance](#)

Chair: Michael Sagas.

Graduate Coordinator: Stephen Holland.

Complete faculty listing: [Follow this link.](#)

The degree Master of Science is offered by the Department of Tourism, Recreation, and Sport Management with programs in sport management and in recreation, parks, and tourism. Both programs offer thesis and non-thesis formats. The Department participates in the Ph.D. program in Health and Human Performance. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Master's program provides advanced preparation of tourism, recreation, and parks and sport management professionals for positions of leadership in planning, developing, administering and marketing of programs in a variety of employment settings; public and private. Concentrations of study may be developed in a number of areas, such as:

- Natural resource recreation management
- Tourism and commercial recreation
- Campus recreation
- Recreation administration and supervision
- Sport management

The Doctoral program is offered through the College of Health and Human Performance with concentrations in tourism, natural resource recreation and sport management. These interdisciplinary specializations blend course work and research. The curriculum is individualized, and applicants with degrees from unrelated fields can be accepted into the program. However, their previous work will be evaluated and their programs planned according to their individual needs, interests, and career objectives.

Combined program: The Department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of approximately one semester. Up to 12 approved graduate credit hours can be utilized toward both degrees.

MS/MSM Concurrent Degree Program: This joint degree program is offered through the College of Business Administration (Master of Science in Business Management [MSM]) and the College of Health and Human Performance's, Department of Tourism, Recreation and Sport Management (Master of Science in Sport Management [MS]). Applicants must apply to both programs and be admitted to both to participate. The MS/MSM is a non-thesis degree. The MS/MSM is designed for students who seek a graduate business degree and who lack the work experience necessary for admission to the MBA program. The MS/MSM curriculum is similar to the first year of the MBA program, giving students a good foundation in business principles. Concurrent degree students can share up to 9 credit hours of the same coursework towards both degree programs. They do not have to graduate during the same semester. Students admitted into the concurrent program must work closely with both departments to verify all requirements are being met during their course of study.

MS/J.D. joint program: This 98-credit-hour joint degree program culminates in the Master of Science and the Juris Doctor degrees. Applicants must meet the entrance requirements for the Department of Tourism, Recreation, and Sport Management and the College of Law. Admission to the second degree program is required no later than the end of the fourth consecutive semester after beginning one of the degree programs. The student's supervisory committee comprises faculty members from both the Department of Tourism, Recreation, and Sport Management and the College of Law. Students admitted into the joint program are permitted to share up to 12 credit hours of the same coursework towards both degree programs. Students must graduate during the same semester from both programs.

Other

Recreation, Parks, and Tourism

College

[College of Health and Human Performance](#)

Department/School

[Tourism, Recreation, and Sport Management Department](#)

Recreation, Parks, and Tourism Program Information

The Master of Science in Recreation, Parks and Tourism offers the following four areas of concentration:

1. Tourism and Commercial Recreation

- Travel activities to and staying outside one's usual environment; hospitality, transportation
- Recreation activities covered by fees, charges or other non-tax revenues; theme/amusement/water parks, movie theaters, sport/fitness/health clubs, resorts
- Examples of employers include: travel agencies, cruise lines, dance studios, special event companies, resorts, multipurpose sports clubs and health & fitness clubs

2. Natural Resource Recreation

- Park(s) management, protected areas, wilderness conservation
- State parks, river floating, horseback riding, hiking trails
- Beach management, rivers and lakes, sustainability
- Outdoor recreation leadership
- Conservation management, planning, and policy
- Federal agencies (National Parks, U.S. Army Corp of Engineers)

3. Recreation Administration and Supervision

- City/state public parks
- City pools
- City skate parks, family parks
- Public tennis courts
- City sports teams/leagues, youth sports
- Organized group and youth camps
- Military recreation departments (Morale, Welfare & Recreation [MWR] programs)

4. Campus Recreation Programming & Administration

- college campus intramural recreation programs
- campus fitness / exercise centers

Graduates of the Master of Science in Recreation, Parks & Tourism will be trained for middle and/or upper level management positions, in their respective fields mentioned above. Students can choose between three options: 1.) Thesis, or 2.) Non-Thesis Internship, or 3.) Non-Thesis with Paper.

For more information, please see our website: <http://trsm.hhp.ufl.edu/index.php/graduate/masters-programs/recreation-parks-and-tourism>.

Degrees Offered with a Major in Recreation, Parks, and Tourism**Master of Science**

without a concentration

concentration in Historic Preservation

concentration in Natural Resource Recreation

concentration in Therapeutic Recreation

concentration in Tourism

concentration in Tropical Conservation and Development

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism

- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism
- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM 5016: Sport Sociology
- SPM 5206: Sport Ethics
- SPM 5309: Sport Marketing
- SPM 5506: Sport Finance
- SPM 5936: Current Topics in Sport Management
- SPM 6006: Contemporary Sport Industry
- SPM 6036: Research Seminar in Sport Management
- SPM 6106: Management and Planning of Sport and Physical Activity Facilities
- SPM 6158: Management and Leadership in Sport
- SPM 6308: Study of Sport Consumer Behaviors
- SPM 6726: Issues in Sport Law
- SPM 6905: Directed Independent Study
- SPM 6910: Supervised Research
- SPM 6947: Graduate Internship in Sport Management
- SPM 6948: Advanced Practicum in Sport Management
- SPM 6971: Research for Master's Thesis

Sport Management

College

[College of Health and Human Performance](#)

Department/School

[Tourism, Recreation, and Sport Management Department](#)

Sport Management Program Information

Sport Management integrates concepts of management, marketing, finance and law to apply to sport organizations at various levels and prepares students for a variety of volunteer and employment opportunities at the professional, collegiate, community and amateur level sport entities. Its focus is on the business and organization aspects of sport, not coaching or athletic performance.

For more information, please see our website: <http://trsm.hhp.ufl.edu/index.php/graduate/masters-programs/sport-management>.

Degrees Offered with a Major in Sport Management

Master of Science

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism
- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM 5016: Sport Sociology
- SPM 5206: Sport Ethics
- SPM 5309: Sport Marketing
- SPM 5506: Sport Finance
- SPM 5936: Current Topics in Sport Management
- SPM 6006: Contemporary Sport Industry
- SPM 6036: Research Seminar in Sport Management
- SPM 6106: Management and Planning of Sport and Physical Activity Facilities
- SPM 6158: Management and Leadership in Sport
- SPM 6308: Study of Sport Consumer Behaviors
- SPM 6726: Issues in Sport Law
- SPM 6905: Directed Independent Study
- SPM 6910: Supervised Research
- SPM 6947: Graduate Internship in Sport Management
- SPM 6948: Advanced Practicum in Sport Management
- SPM 6971: Research for Master's Thesis

Comparative Law Department

Director and Graduate Coordinator: P.A. Malavet.

Complete faculty listing by department: [Follow this link.](#)

The LL.M. in Comparative Law degree is designed for graduates of foreign law schools who want to enhance their understanding of the American legal system and the English common law system from which it evolved. Requirements for this degree are given in the *General Information* section of this catalog.

The program begins with Introduction to American Law, a 4-credit summer course that gives students a foundation in the American legal process. It also helps students acclimate to the College of Law and the University community before to the start of the academic year. During the fall and spring terms, and with the director's approval, students choose their remaining 22 credits from more than 100 Juris Doctor and LL.M. in Taxation courses and seminars. For admission information consult the *College of Law Prospectus* or write to the Comparative Law Office P.O. Box 117643, University of Florida, Gainesville, FL 32611-7643 USA.

Other

Comparative Law

College

[Fredric G. Levin College of Law](#)

Department/School

[Comparative Law Department](#)

Degrees Offered with a Major in Comparative Law

Master of Laws in Comparative Law

without a concentration

concentration in Tropical Conservation and Development

Courses

- LAW 7801: Introduction to the Legal System of the United States for LL.M in Comparative Law, Part II
- LAW 7805: Legal Writing and Research for LL.M. in Comparative Law
- LAW 7906: Directed Research for LL.M. in Comparative Law
- LAW 7932: Introduction to the Legal System of the United States for LL.M in Comparative Law, Part I

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates

- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

Environmental and Land Use Law Department

Director and Graduate Coordinator: Christine A. Klein

Complete faculty listing by department: [Follow this link.](#)

Florida's sensitive, varied and beautiful natural environment makes the University of Florida a natural choice for students who want to focus on the national and global issues of land use and environmental law. Florida provides a perfect setting to study first-hand the efforts to reconcile growth and conservation.

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

For more information, please see the program page below and our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>.

Other

Environmental and Land Use Law

College

[Fredric G. Levin College of Law](#)

Department/School

[Environmental and Land Use Law Department](#)

Environmental and Land Use Law Program Information

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

Students admitted to the program work with the LL.M. Program Director to design an individual course of study tailored to their particular interests. In addition to a broad range of academic courses, UF Law offers a wealth of environmental skills and field courses such as the Conservation Clinic, Environmental Dispute Resolution and Wetlands & Watersheds. LL.M. students may also apply for a seat in the spring break field course (previous offerings have included Sustainable Development in Belize, Central America, and Ocean and Coastal Law in Marineland, Florida); the South Florida Everglades field course offered in May (course availability varies) and the Summer Environmental Law Study Abroad Program in Costa Rica.

The program also capitalizes on the many outstanding programs at the University of Florida in disciplines related to environmental and land use law practice, including wildlife ecology, environmental engineering, urban and regional planning, and interdisciplinary ecology. The UF LL.M. program is unique in requiring that 6 of the 26 required credit hours must be from relevant graduate level courses that have substantial non-law content and are offered outside the law school or jointly by the law school and another department. In addition to completing required coursework, LL.M. candidates must complete a written project in connection with a seminar or the Conservation Clinic.

Six credit hours of coursework in graduate-level courses listed outside the law school or jointly listed by the law school and another graduate department and approved by the LL.M. Program Director are required. For elective courses, please visit <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law/degree-requirements>.

For more information about the Environmental and Land Use Law Program, please see our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>, or contact:

University of Florida
Levin College of Law
P.O. Box 117625
Gainesville, FL 32611-7625
Phone: 352-273-0777
Email: clulp@law.ufl.edu

Degrees Offered with a Major in Environmental and Land Use Law

Master of Laws in Environmental and Land Use Law

Courses

- LAW 7493: LL.M. Research: Selected Topics in Environmental & Land Use Law
- LAW 7916: Research Methods and Environmental Land Use Law

Taxation Department

Chair and Graduate Coordinator: M. K. Friel.

Complete faculty listing by department: [Follow this link.](#)

Graduate study in the field of taxation leading to the Master of Laws in Taxation degree or to the Master of Laws in International Tax degree is available in the College of Law.

Applicants for admission to the Graduate School for these degrees must hold a law degree from an accredited law school or in the case of international students, from a recognized foreign university but need not submit scores on the Graduate Record Examination. For further information concerning admission consult the *Graduate Tax Program Catalog*, or write the Tax Office, 320 Holland Law Center.

Other

International Taxation

College

[Fredric G. Levin College of Law](#)

Department/School

[Taxation Department](#)

Degrees Offered with a Major in International Taxation

Master of Laws in International Taxation

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy

- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

Taxation

College

[Fredric G. Levin College of Law](#)

Department/School

[Taxation Department](#)

Degrees Offered with a Major in Taxation

Master of Laws in Taxation

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis

- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

Anthropology Department

Chair: S. deFrance

Graduate Coordinator: P. Collings

Complete faculty listing by department: [Follow this link.](#)

The Anthropology Department takes pride in maintaining a holistic perspective, bridging the four traditional fields that have composed the discipline: sociocultural, archaeological, biological, and linguistic anthropology. Both graduate students and faculty conduct research that cut across the four-fields, and extend anthropological investigations into other disciplines.

The graduate program is a mentoring program emphasizing the PhD degree. Students are mentored by faculty advisors, together with supervisory committees chosen by students with the advice of advisors. Graduate students are expected to be in residence to attend classes and seminars, and receive individualized training. Distance-education graduate degrees are not offered. Students formally report on their progress each year, and the progress of each graduate student is evaluated by the faculty in their primary field.

Students receiving graduate degrees are well-prepared intellectually and professionally for success in a wide variety of careers, and become leaders in developing the next generation of anthropology. The department offers teaching experience and resources for presenting conference papers, submitting grant proposals, conducting fieldwork, and other activities appropriate to their professionalization. Graduate students are welcome to contribute to discussions in departmental meetings, and serve on some departmental committees.

Other

Anthropology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Anthropology Department](#)

Anthropology Program

The department of Anthropology offers graduate work leading to the Master of Arts (thesis or nonthesis option) and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog. For more information, visit the departmental website: <http://anthro.ufl.edu>. Graduate training is offered in cultural anthropology, archeology, and biological anthropology.

Each graduate student should specify a major field of study among the four fields of anthropology. In addition, each must choose one of three tracks: the specialized track in which a student focuses on one field of anthropology, the multifield track in which a student combines two fields, or the interdisciplinary track in which a student adds study in a second discipline to anthropology. Knowledge of a foreign language or of statistics may be required by the student's supervisory committee.

The department generally requires applicants to have acceptable scores on the GRE (verbal and quantitative portions) and a 3.2 overall grade point average based on a 4.0 system. Previous work in anthropology is an asset but not a strict requirement for admission. Potential applicants are urged to visit the website to familiarize themselves with the specializations of our faculty and to indicate in their application those faculty with whom they might work. Barring special circumstances, the Department restricts admission to applicants interested in earning a Ph.D. Entering students who have earned a master's degree may apply for direct admission to the doctoral program. Students who enter without an M.A. will generally work for their M.A. on the way to the Ph.D. This requires either a formally-defended thesis or written comprehensive exams combined with a high-quality paper or research report. With their adviser's permission, they may opt to bypass the M.A.

Students enrolled in the M.A. program who wish to continue their studies for a Ph.D. must apply to the Department for certification.

New students are admitted into the graduate program only in the fall of each academic year. The deadline for receiving completed applications for admission into the graduate program is December 15, though the department encourages early applications.

Degrees Offered with a Major in Anthropology

Doctor of Philosophy

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

Master of Arts in Teaching

without a concentration

concentration in Tropical Conservation and Development

Courses

- ANG 5012: Fantastic Anthropology and Fringe Science
- ANG 5085: Collection and Analysis of Visual Data in Anthropology
- ANG 5126: Zooarchaeology
- ANG 5158: Florida Archeology
- ANG 5162: Maya Archaeoastronomy and Ethnoastronomy
- ANG 5164: The Inca and Their Ancestors
- ANG 5172: Historical Archeology
- ANG 5194: Principles of Archeology
- ANG 5255: Rural Peoples in the Modern World
- ANG 5265: Methods in Ethnoecology
- ANG 5266: Economic Anthropology
- ANG 5303: Women and Development
- ANG 5310: The North American Indian
- ANG 5323: Peoples of Mexico and Central America
- ANG 5327: Maya and Aztec Civilizations
- ANG 5330: The Tribal Peoples of Lowland South America
- ANG 5331: Peoples of the Andes
- ANG 5336: The Peoples of Brazil
- ANG 5341: Anthropology of the Caribbean
- ANG 5352: Peoples of Africa
- ANG 5354: Anthropology of Modern Africa
- ANG 5395: Visual Anthropology
- ANG 5420: Social Network Analysis in Cultural Anthropology
- ANG 5426: Kinship and Social Organization
- ANG 5464: Culture and Aging
- ANG 5485: Research Design in Anthropology
- ANG 5486: Computing for Anthropologists
- ANG 5488: Geospatial Analysis in Cultural Anthropology
- ANG 5525: Human Osteology and Osteometry
- ANG 5531: Culture and Nutrition
- ANG 5546: Seminar: Human Biology and Behavior
- ANG 5620: Language and Culture
- ANG 5621: Proseminar in Cultural and Linguistic Anthropology
- ANG 5700: Applied Anthropology
- ANG 5702: Anthropology and Development
- ANG 5711: Culture and International Business
- ANG 5743: Human Rights Missions in Forensic Anthropology
- ANG 5744: International Forensic Fieldwork in Human Rights
- ANG 5824L: Field Sessions in Archeology
- ANG 6034: Seminar in Anthropological History and Theory
- ANG 6086: Historical Ecology
- ANG 6091: Research Strategies in Anthropology
- ANG 6110: Archaeological Theory
- ANG 6112: Critical Archaeology of Time
- ANG 6113: Ideology and Symbolic Approaches in Archaeology
- ANG 6120C: Environmental Archaeology
- ANG 6122C: Archaeological Ceramics
- ANG 6128: Lithic Technology
- ANG 6146: Archaeology of Maritime Adaptations
- ANG 6155: Southeastern U.S. Prehistory
- ANG 6161: Problems in Caribbean Prehistory
- ANG 6165: Problems in South American Archaeology
- ANG 6183: Laboratory Training in Archeology
- ANG 6185: Ethnoarchaeology
- ANG 6186: Seminar in Archeology
- ANG 6187: Experimental Archaeology
- ANG 6190: Seminar in Contemporary Methods
- ANG 6191: Archaeology of Death
- ANG 6224: Painted Books of Ancient Mexico: Codices of Aztecs, Mixtecs, and Mayas
- ANG 6241: Special Topics in Ecology of Religion
- ANG 6267: Anthropology, Geographic Information System, and Human Ecosystems
- ANG 6273: Legal Anthropology
- ANG 6274: Principles of Political Anthropology
- ANG 6286: Seminar in Contemporary Theory

- ANG 6304: Seminar in Gender and International Development
- ANG 6314: Peoples of the Arctic
- ANG 6351: Peoples and Culture in Southern Africa
- ANG 6360: Ethnicity in China
- ANG 6366: Family, Gender, and Population in China
- ANG 6407: Sickness and Power
- ANG 6421: Landscape, Place, Dwelling
- ANG 6452: Race and Racism in Anthropological Theory
- ANG 6453: Human Rights in Cross-Cultural Perspective
- ANG 6478: Evolution of Culture
- ANG 6481: Research Methods in Cognitive Anthropology
- ANG 6483L: Anthropology of Science
- ANG 6511: Seminar in Physical Anthropology
- ANG 6514: Human Origins
- ANG 6524: Skeletal Mechanics in Biological Anthropology
- ANG 6532: Molecular Genetics of Disease
- ANG 6547: Human Adaptation
- ANG 6552: Primate Behavior
- ANG 6553: Primate Cognition
- ANG 6555: Issues in Evolutionary Anthropology
- ANG 6583: Primate Functional Morphology
- ANG 6591L: Advanced Molecular Anthropology Laboratory
- ANG 6592: Seminar in Molecular Anthropology
- ANG 6593L: Biological Anthropology Laboratory
- ANG 6701: Seminar on Applied Anthropology
- ANG 6737: Medical Anthropology
- ANG 6740: Advanced Techniques in Forensic Anthropology
- ANG 6801: Ethnographic Field Methods
- ANG 6905: Individual Work
- ANG 6910: Supervised Research
- ANG 6915: Research Projects in Social, Cultural, and Applied Anthropology
- ANG 6917: Professions of Anthropology
- ANG 6930: Special Topics in Anthropology
- ANG 6940: Supervised Teaching
- ANG 6945: Internship in Anthropology
- ANG 6971: Research for Master's Thesis
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation

Astronomy Department

Chair: C. Telesco

Graduate Coordinator: V. Sarajedini.

Complete faculty listing by department: [Follow this link.](#)

The University of Florida's Astronomy Department is one of the largest in the country. Research is an integral part of the graduate program. Students have opportunities to work with faculty and staff on a broad range of astronomical problems using in-house, national and international, and ground- and space-based facilities. Support for graduate studies is available through fellowships, research assistantships, and teaching assistantships. For more information on the program, please follow the link below or visit [our website](#).

Other

Astronomy

College

[College of Liberal Arts and Sciences](#)

Department/School

[Astronomy Department](#)

Astronomy Program Information

The Astronomy Department offers graduate programs leading to the M.S., M.S.T. or Ph.D. degrees in astronomy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Planetary Systems: Observational and theoretical studies concentrate in the areas of planet formation, the dynamical evolution of planetary systems and the detection and characterization of extrasolar planets. Members of the department are active in Kepler Mission and ground-based Dopple surveys to identify extrasolar planets. Researchers are also active in studying the origins and orbital evolution of interplanetary dust and small bodies in the solar system and around nearby stars.

Stellar populations: Observational studies concentrate on resolved stars in the Milky Way and nearby galaxies. Studies of particular classes of stars include various types of binary stars and blue stragglers. The goal of these studies is to apply our theoretical understanding of stellar structure and evolution to the properties of stars in a variety of environments.

Origins of stars and planets: Observational studies focus on the properties of giant molecular clouds, the collapse of molecular cloud cores, the formation of stars in clusters and in isolation, and the formation and evolution of circumstellar and protoplanetary disks. The department is active in several star formation surveys, involving many international ground- and space-based facilities. Theoretical studies emphasize the development of analytic models and numerical simulations, as well as their testing against observational constraints.

Structure and evolution of galaxies: Observational programs use multi-wavelength photometry of stars and star clusters in galaxies throughout the Local Group and in nearby groups, including the Milky Way, to study galaxy evolution. Other observations focus on the structure and dynamics of galaxies and their interstellar medium using neutral hydrogen (HI) and molecules such as carbon monoxide.

Extragalactic astronomy and cosmology: Observational programs investigate the nature of ultra-luminous galaxies, active galactic nuclei (AGNs), and the formation and chemical evolution of distant galaxies and clusters of galaxies. Theoretical investigations focus on the emission/absorption features in AGN spectra, the star-formation and chemical-evolution properties of galaxies, and applications of general relativity and particle physics to conditions in the very early universe.

Instrumentation programs: The UF Infrared Astrophysics Laboratory is a world leader in designing and constructing advanced near-infrared and mid-infrared instrumentation for major telescopes around the world, including the 8m Gemini North and South Telescopes and the 10m Gran Telescopio Canarias. Instrumentation is also developed in the area of high precision Doppler techniques for planet searches and the development of high contrast imaging techniques for direct imaging of extrasolar planets.

Computing facilities: The Astronomy Department maintains a network of high-performance computers running Linux and OS-X. The local network is maintained by a full-time systems manager. Astronomy students have access to supercomputing facilities maintained by the UF High Performance Computing Center, including thousands of CPU cores with high-performance networking.

Degrees Offered with a Major in Astronomy

Doctor of Philosophy

Master of Science

Master of Science in Teaching

Courses

- AST 5113: Solar System Astrophysics I
- AST 5114: Solar System Astrophysics II
- AST 6112: Solar System Astrophysics
- AST 6215: Stellar Structure and Function
- AST 6245: Stellar Atmospheres and Radiative Processes
- AST 6309: Galactic and Extragalactic Astronomy
- AST 6336: Interstellar Matter
- AST 6415: Observational Cosmology
- AST 6416: Physical Cosmology
- AST 6506: Celestial Mechanics
- AST 6725C: Observational Techniques
- AST 6905: Individual Work
- AST 6910: Supervised Research
- AST 6925: Departmental Colloquium
- AST 6935: Frontiers in Astronomy
- AST 6936: Astronomy Journal Club
- AST 6971: Research for Master's Thesis
- AST 7939: Special Topics
- AST 7979: Advanced Research
- AST 7980: Research for Doctoral Dissertation

Biology Department

[College of Liberal Arts and Sciences](#)

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

Complete faculty listing by department: [Follow this link.](#)

The Department of Biology offers two graduate programs: Botany and Zoology. Both programs offer graduate work leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

More information regarding these programs is available by following the links below and by visiting our departmental website: <http://www.biology.ufl.edu>.

Other

Botany

College

[College of Liberal Arts and Sciences](#)

Department/School

[Biology Department](#)

Botany Program Information

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

The Department of Biology offers graduate work in Botany leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Department offers studies in the areas of biochemistry, molecular biology, cell biology, physiology, ecology, systematics, and evolution. Specific areas of specialization include anatomy/morphology with emphasis on extant and fossil vascular plants; ecology and environmental studies including ecosystem ecology, conservation biology and genetics, fire ecology, exotic invasive species, and tropical botany and ecology; cell biology with emphasis on the cytoskeleton and cell morphogenesis; physiology, biochemistry, and molecular biology with emphasis on photosynthesis, growth and development of angiosperms, protein phosphorylation and signal transduction, global analysis of spatial patterns of gene expression; plant secondary metabolism and proteomics; systematics with emphasis on DNA- and morphology-based phylogenetic analyses, phylogeographic studies, molecular evolution/development, and monographic and floristic studies. To be considered for admission to graduate studies, students should have:

- The equivalent of an undergraduate degree in botany or biology with basic course work in their area of interest
- Acceptable GRE scores (verbal, quantitative, and analytical writing)
- Letters of recommendation
- International students must submit an acceptable score on one of the following TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program. The program of graduate study for each student will be determined by a supervisory committee, and deficiencies in background coursework will be made up early in the graduate program. No more than 9 credits of BOT 6905 may be used to satisfy the credit requirements for a master's degree.

Degrees Offered with a Major in Botany

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Zoology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Biology Department](#)

Zoology Program Info

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

The Department of Biology offers graduate programs in Zoology leading to the Master of Science in Teaching, Master of Science, and Doctor of Philosophy degrees. The requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog.

Our program emphasizes Integrative Biology, with integration accomplished through a focus on the theoretical foundations provided by evolutionary biology and ecology. Our faculty has expertise in ecology, evolution, behavior, comparative and environmental physiology, genetics, development, and phylogenetics. We work in a variety of terrestrial and aquatic environments and geographic regions (tropics through subpolar), and on a range of organisms (including plants). Our faculty value integrative research (e.g., by crossing levels of organization from gene expressions to species interactions), linking theory with data (through use of statistical and mathematical tools), and using natural history to guide the development and testing of rigorous conceptual frameworks. Many of our faculty also are interested in applying and testing basic science in applied contexts (e.g., conservation biology and ecotoxicology).

Our approach is highlighted through our first-year, required, graduate course, Integrative Principles. Each student's supervisory committee will recommend additional courses according to the academic background and research plans of the student.

Degrees Offered with a Major in Zoology

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Zoology Courses

- BOT 6726C: Principles of Systematic Biology
- PCB 5307C: Limnology
- PCB 5415C: Behavioral Ecology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6049: Seminar in Ecology
- PCB 6377C: Physiological Ecology of Vertebrates
- PCB 6447C: Community Ecology
- PCB 6675C: Evolutionary Biogeography
- PCB 6695: Seminar in Evolutionary Biology
- ZOO 5115C: Vertebrate Paleontology
- ZOO 5486C: Mammalogy
- ZOO 6005: Integrative Principles of Zoology I
- ZOO 6308: Dynamic Optimization Modeling in Behavioral and Evolutionary Ecology
- ZOO 6406: Biology of Sea Turtles
- ZOO 6456C: Ichthyology
- ZOO 6542: Nutritional Ecology
- ZOO 6905: Individual Studies
- ZOO 6910: Supervised Research
- ZOO 6920: Zoology Colloquium
- ZOO 6927: Special Topics in Zoology
- ZOO 6931: Seminar in Marine Turtle Biology
- ZOO 6939: Seminar in Animal Behavior
- ZOO 6971: Research for Master's Thesis
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

Chemistry Department

Chair: W. Dolbier

Graduate Coordinator: B. W. Smith

Complete faculty listing: [Follow this link.](#)

The Department of Chemistry granted its first master's degree in 1909 and the first Ph.D. in 1930. Specializations in biochemistry, organic, physical, inorganic and analytical are offered with extensive interdisciplinary research opportunities (e.g., bio/nano-science, particle science, green chemistry, polymer chemistry, chemical physics, health related biochemistry, chemistry-engineering and genomics).

The Department presently offers the Master of Science and Doctor of Philosophy degrees with a major in chemistry. The non-thesis Master of Science in Teaching degree is also offered with a major in chemistry.

Other

Chemistry

College

[College of Liberal Arts and Sciences](#)

Department/School

[Chemistry Department](#)

Chemistry Program

The department offers the Master of Science (thesis or nonthesis) and Doctor of Philosophy degrees with a major in chemistry and specialization in biochemistry, analytical, organic, inorganic, or physical chemistry. The nonthesis degree Master of Science in Teaching is also offered with a major in chemistry. New graduate students should have adequate undergraduate training in inorganic, analytical, organic, and physical chemistry. Normally this will include as a minimum a year of general chemistry, one semester of quantitative analysis, one year of organic chemistry, one year of physical chemistry, and one semester of advanced inorganic chemistry. Additional courses in instrumental analysis, biochemistry, and advanced physical and organic chemistry are desirable. Deficiencies in any of these areas may be corrected during the first year of graduate study. Such deficiencies are determined by a series of placement tests given prior to registration, and the results of these tests are used in planning the student's program. Doctoral candidates are required to complete at least 9 semester credits of courses specified by the division of the Chemistry Department in which they choose to specialize, as well as at least 9 semester credits of out-of-major-division courses. There are some minor restrictions on courses that may be used to meet this requirement. Additional courses may be required by the student's supervisory committee or major professor.

Ph.D. candidates must serve not less than one year as teaching assistants. This requirement will be waived only when, in the opinion of the department, unusual circumstances justify such action. A chemical physics option is offered for students who will be doing research in areas of physical chemistry which require a strong background in physics. For this option, a student meets the departmental requirements for concentration in physical chemistry, except that only one out-of-major division course is required. In addition, a minimum of 14 credits in 4000 level or higher physics courses or a minimum of 7 such credits in physics and 7 in 4000 level or higher mathematics courses is required. Candidates for the master's degree are required to complete any two core courses. The Master of Science degree in chemistry has both thesis and nonthesis options. The nonthesis degree Master of Science in Teaching is offered with a major in chemistry and requires a written paper of substantial length (30 to 50 pages) on an approved topic pertaining to some phase of chemistry, under the course [CHM 6905](#).

Degrees Offered with a Major in Chemistry

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Imaging Science and Technology

Master of Science

Master of Science in Teaching

Courses

- CHM5224: Basic Principles for Organic Chemistry
- CHM5235: Organic Spectroscopy
- CHM5275: The Organic Chemistry of Polymers
- CHM5305: Chemistry of Biological Molecules
- CHM5413L: Advanced Physical Chemistry Laboratory
- CHM5511: Physical Chemistry of Polymers
- CHM6036: Chemical Biology
- CHM6037: Chemical Biology and Biochemistry Seminar
- CHM6153: Electrochemical Processes
- CHM6154: Chemical Separations
- CHM6155: Spectrochemical Methods
- CHM6158C: Electronics and Instrumentation
- CHM6159: Mass Spectrometric Methods
- CHM6165: Chemometrics
- CHM6180: Special Topics in Analytical Chemistry
- CHM6190: Analytical Chemistry Seminar
- CHM6225: Advanced Principles of Organic Chemistry
- CHM6226: Advanced Synthetic Organic Chemistry
- CHM6227: Topics in Synthetic Organic Chemistry
- CHM6251: Organometallic Compounds
- CHM6271: The Chemistry of High Polymers
- CHM6301: Enzyme Mechanisms
- CHM6302: Chemistry and Biology of Nucleic Acids
- CHM6303: Methods in Computational Biochemistry and Structural Biology
- CHM6306: Special Topics in Biological Chemistry Mechanisms
- CHM6381: Special Topics in Organic Chemistry
- CHM6390: Organic Chemistry Seminar Presentation
- CHM6391: Organic Chemistry Seminar Discussion
- CHM6430: Chemical Thermodynamics
- CHM6461: Statistical Thermodynamics
- CHM6470: Chemical Bonding and Spectra I
- CHM6471: Chemical Bonding and Spectra II
- CHM6480: Elements of Quantum Chemistry
- CHM6490: Theory of Molecular Spectroscopy
- CHM6520: Chemical Physics
- CHM6580: Special Topics in Physical Chemistry
- CHM6586: Computational Chemistry
- CHM6590: Physical Chemistry Seminar
- CHM6620: Advanced Inorganic Chemistry I
- CHM6621: Advanced Inorganic Chemistry II
- CHM6626: Applications of Physical Methods in Inorganic Chemistry
- CHM6628: Chemistry of Solid Materials
- CHM6670: Inorganic Biochemistry
- CHM6680: Special Topics in Inorganic Chemistry
- CHM6690: Inorganic Chemistry Seminar
- CHM6720: Chemical Dynamics
- CHM6905: Individual Problems, Advanced
- CHM6910: Supervised Research
- CHM6934: Advanced Topics in Chemistry
- CHM6935: Chemistry Colloquium
- CHM6943: Internship in College Teaching
- CHM6971: Research for Master's Thesis
- CHM7485: Special Topics in Theory of Atomic and Molecular Structure
- CHM7979: Advanced Research
- CHM7980: Research for Doctoral Dissertation
- CHS 5110L: Radiochemistry Laboratory

Classics Department

Chair: Victoria Pagin.

Graduate Coordinator: Jennifer Rea.

Complete faculty listing: [Follow this link.](#)

The department offers the following degrees and programs: the Doctor of Philosophy in classical studies; the Master of Arts degree in classical studies or Latin; the Master of Latin degree, and the Master of Arts in Teaching degree in Latin. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

Within the Ph.D. program are three tracks:

- Philology (prepares students for careers in colleges and universities)
- Classical civilization (available via distance course work)
- Latin and Roman studies (available via distance course work).

Requirements for the philology track of the doctoral degree include:

- 60 credit hours after the M.A. (or a total of 90 credit hours)
- Five additional seminars after the M.A. in classics at the 500 level or higher
- Three of the following seminars: [GRE 6425](#), [GRW 6105](#), [LAT 6425](#), [LNW 6105](#), and [CLA 6805](#)
- A reading knowledge of two modern languages, one of which must be German
- Reading lists in Greek and Roman authors
- Supervised experience in teaching Latin, Greek, or civilization courses is advised
- Successful completion of a series of qualifying examinations appropriate to the chosen specialization (Greek reading Latin reading classical Greek literature in its historical context; classical Latin literature in its historical context; special author/topic)

- An oral preliminary examination, dissertation, and final examination

The M.A. degree in classical studies is recommended for students who plan to continue on to the doctoral level. The M.A. degree in Latin is recommended for students who plan to pursue a career in secondary teaching. Both M.A. programs require 30 credit hours, including 6 credits of [GRW 6971](#) or [LNU 6971](#), a thesis, and final examination.

The Master of Latin degree is a non-thesis degree, designed for currently employed and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of classics, and enhance their professional qualifications through a program of summer course work and directed independent study and/or distance learning courses during the regular academic year. The Master of Arts in Teaching, a non-thesis degree, is offered with a program in Latin and is intended for students preparing to teach in community colleges or high schools.

Other

Classical Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Classics Department](#)

Classical Studies Program Information

(The following information refers only to our on-campus programs. Please visit the [Distance Learning Homepage](#) for further details on our Distance Learning programs, especially aimed at elementary, secondary, or community college teachers.)

Ph.D. in Classical Studies

The Ph.D. program in classical studies is a traditional course of study in Greek and Latin language and literature that prepares students for careers in research and teaching at colleges and universities. Students awarded a TA position receive a stipend plus a full tuition waiver. The University also offers competitive fellowships. The department routinely provides research fellowships for its Ph.D. candidates. Department awards are also available for study abroad opportunities. Students are expected to become Florida residents after one year.

M.A. in Classical Studies

The Department of Classics at the University of Florida offers an M.A. degree in Classical Studies. Students awarded a TA position receive a stipend plus a full tuition waiver. Students are expected to become Florida residents after one year.

The **Master of Arts in Classical Studies** is recommended for students who plan to continue their studies at the doctoral level

For minimum degree requirements, see the [Graduate Degrees](#) section of the catalog. For additional requirements, please see the department website: <http://classics.ufl.edu>.

Admissions Requirements to the Classical Studies Programs:

Admission into the university and the program for Classics is ultimately determined and granted according to the rules established by the Graduate School of the University of Florida (see the Graduate Catalog).

Submission of Graduate Record Examination (GRE) scores, with a minimum score of 1000 (combined verbal and quantitative). Competitive applicants for funding awards from the department typically have a combined score of at least 1200.

Ph.D. program (Level II) requirements include:

1. M.A. in Classics or the equivalent.
2. A GPA of at least 3.25 in previous graduate work, and an undergraduate average of at least 3.0.
3. Demonstrated reading knowledge of German, French, Italian or Modern Greek (competency in the second language to be demonstrated before the completion of the second year at Level II).
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the applicant's record gives evidence of the capacity to undertake and complete guided independent reading and research at the doctoral level.

Master's program (Level I) requirements include:

1. Extensive study of Greek and Latin, with at least three years of coursework in one language and at least two years in the other language.
2. At least six hours in one or more of the following: ancient history, ancient art, archaeology, philosophy, literary criticism, linguistics.
3. A GPA of at least a 3.0.
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the record shows promise on other grounds.

Degrees Offered with a Major in Classical Studies

Doctor of Philosophy

Master of Arts

Classics Departmental Courses

- CLA 6125: Augustan Age
- CLA 6515: Roman Dynasty: Nero and the Julio-Claudians
- CLA 6795: Greek and Roman Archeology
- CLA 6805: The Classical Research Tradition
- CLA 6885: Roman Law and Society
- CLA 6895: Athenian Law and Society
- CLA 6905: Individual Work
- CLA 6930: Greece and the Near East
- CLT 6295: Greek Drama in Translation
- GRE 6425: Greek Prose Composition
- GRE 6755: Epigraphy
- GRK 6905: Individual Work in Modern Greek
- GRW 6105: The Greek Tradition
- GRW 6216: Greek Novel
- GRW 6316: Greek Tragedy
- GRW 6317: Ancient Greek Comedy
- GRW 6345: Greek Lyric Poetry
- GRW 6346: Pindar
- GRW 6347: Homer
- GRW 6386: Greek Historians
- GRW 6506: Plato
- GRW 6705: Attic Orators
- GRW 6905: Individual Work
- GRW 6930: Special Topics in Greek Literature
- GRW 6931: Comparative Study of Greek and Latin Literature
- GRW 6971: Research for Master's Thesis
- GRW 7979: Advanced Research
- GRW 7980: Research for Doctoral Dissertation
- LAT 6425: Latin Prose Composition
- LNW 5325: Roman Elegiac Poetry
- LNW 5655: Roman Poets: Horace
- LNW 5665: Roman Poets: Vergil
- LNW 5675: Roman Poets: Ovid
- LNW 5931: Comparative Study of Latin and Greek Literature
- LNW 6105: The Roman Tradition
- LNW 6225: The Ancient Roman Novel
- LNW 6335: Roman Oratory and Rhetoric
- LNW 6365: Studies in Roman Satire
- LNW 6385: Roman Historians
- LNW 6495: Late Latin Literature
- LNW 6905: Individual Work
- LNW 6933: Special Topics in Latin Literature
- LNW 6935: Proseminar in Classics
- LNW 6940: Supervised Teaching
- LNW 6971: Research for Master's Thesis
- LNW 7979: Advanced Research
- LNW 7980: Research for Doctoral Dissertation

Latin

College

[College of Liberal Arts and Sciences](#)

Department/School

[Classics Department](#)

Latin Program Information

(The following information refers only to our on-campus programs. Please visit the [Distance Learning Homepage](#) for further details on our Distance Learning MA and ML Programs, especially aimed at elementary, secondary, or community college teachers.)

The Department of Classics at the University of Florida offers an M.A. degree in Latin, an M.A.T. degree in Latin, as well as a Master of Latin degree. Students awarded a TA position receive a stipend plus a full tuition waiver. Students are expected to become Florida residents after one year.

The **Master of Arts in Latin** is a thesis degree designed specifically for students who are aiming toward a career in secondary teaching, but who still desire the writing experience and credential that a thesis provides.

The **Master of Arts in the Teaching of Latin (M.A.T.)** is recommended for students who wish to pursue a career in teaching and who want to include educational courses in their program. This is a non-thesis degree.

The **Master of Latin (M.L.) degree** is designed primarily for currently employed, and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of Classics, and enhance their professional qualifications. This is a non-thesis degree.

For minimum degree requirements, see the [Graduate Degrees](#) section of the catalog. For additional requirements, please see the department website: <http://classics.ufl.edu>.

Admission Requirements to the Latin Programs:

Admission into the university and the program for Classics is ultimately determined and granted according to the rules established by the Graduate School of the University of Florida (see the Graduate Catalog).

Submission of Graduate Record Examination (GRE) scores, with a minimum score of 1000 (combined verbal and quantitative). Competitive applicants for funding awards from the department typically have a combined score of at least 1200.

Master's level (Level I) requirements include:

1. Extensive study of Greek and Latin, with at least three years of coursework in one language and at least two years in the other language.
2. At least six hours in one or more of the following: ancient history, ancient art, archaeology, philosophy, literary criticism, linguistics.
3. A GPA of at least a 3.0.
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the record shows promise on other grounds.

Degrees

Master of Arts

Master of Arts in Teaching

Master of Latin

Classics Departmental Courses

- CLA 6125: Augustan Age
- CLA 6515: Roman Dynasty: Nero and the Julio-Claudians
- CLA 6795: Greek and Roman Archeology
- CLA 6805: The Classical Research Tradition
- CLA 6885: Roman Law and Society
- CLA 6895: Athenian Law and Society
- CLA 6905: Individual Work
- CLA 6930: Greece and the Near East
- CLT 6295: Greek Drama in Translation
- GRE 6425: Greek Prose Composition
- GRE 6755: Epigraphy
- GRK 6905: Individual Work in Modern Greek
- GRW 6105: The Greek Tradition
- GRW 6216: Greek Novel
- GRW 6316: Greek Tragedy
- GRW 6317: Ancient Greek Comedy
- GRW 6345: Greek Lyric Poetry
- GRW 6346: Pindar
- GRW 6347: Homer
- GRW 6386: Greek Historians
- GRW 6506: Plato
- GRW 6705: Attic Orators
- GRW 6905: Individual Work
- GRW 6930: Special Topics in Greek Literature
- GRW 6931: Comparative Study of Greek and Latin Literature
- GRW 6971: Research for Master's Thesis
- GRW 7979: Advanced Research
- GRW 7980: Research for Doctoral Dissertation

- LAT 6425: Latin Prose Composition
- LNW 5325: Roman Elegiac Poetry
- LNW 5655: Roman Poets: Horace
- LNW 5665: Roman Poets: Vergil
- LNW 5675: Roman Poets: Ovid
- LNW 5931: Comparative Study of Latin and Greek Literature
- LNW 6105: The Roman Tradition
- LNW 6225: The Ancient Roman Novel
- LNW 6335: Roman Oratory and Rhetoric
- LNW 6365: Studies in Roman Satire
- LNW 6385: Roman Historians
- LNW 6495: Late Latin Literature
- LNW 6905: Individual Work
- LNW 6933: Special Topics in Latin Literature
- LNW 6935: Proseminar in Classics
- LNW 6940: Supervised Teaching
- LNW 6971: Research for Master's Thesis
- LNW 7979: Advanced Research
- LNW 7980: Research for Doctoral Dissertation

Computer and Information Science and Engineering Department

[College of Liberal Arts and Sciences](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir.

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, Engineer, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Other

Computer Science

College

[College of Liberal Arts and Sciences](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Computer Science Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science degree in Computer Science through the College of Liberal Arts and Sciences. Minimum requirements for this degree are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in Algorithms, Computer Vision, Databases, Graphics and Modeling, Machine Learning, Networks, and Systems, with active labs in Bioinformatics; Computational Science and Intelligence; Vision, Graphics and Medical Imaging; Database Systems Research and Development; Data Science Research; Mobile and Pervasive Computing; Human-Centered Computing; and Cybersecurity.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees Offered with a Major in Computer Science

Master of Science

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks

- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Sociology and Criminology & Law Department

Chair: Barbara Zsembik

Graduate Coordinator: Barbara Zsembik

Complete faculty listing by department: [Follow this link.](#)

The Department of Sociology and Criminology & Law offers several programs of graduate study leading to the Ph.D. in Sociology, the Ph.D. in Criminology, Law and Society, the MA in Sociology, the MA in Criminology, Law and Society, and a Joint MA in Criminology/JD degree. The department also partners with the School of Natural Resources and Environment Department to offer the Ph.D. or MA in Interdisciplinary Ecology. Advanced undergraduate majors may complete a combined BA/MA degree in Sociology or a combined BA/MA degree in Criminology, Law and Society.

Other

Criminology, Law and Society

College

[College of Liberal Arts and Sciences](#)

Department/School

[Sociology and Criminology & Law Department](#)

Criminology, Law and Society Program Information

Requirements for the M.A. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog. The graduate program in criminology and law has two areas of special emphasis: crime and justice, and law and society. The degree programs are research-based and prepare students to conduct original exploration into relevant problems, issues, and policies.

M.A. degree program: Admission to the master's degree program requires a bachelor's degree from a criminology/criminal justice or relevant social science or humanities program (political science, sociology, anthropology, psychology, philosophy, history, women's studies, etc.). Qualified students may enter the master's program as undergraduates through the combined B.A./M.A. program. Both M.A. options (thesis and nonthesis) require satisfactory completion of at least 36 credit hours.

Ph.D. degree program: The Doctor of Philosophy program includes a minimum of 90 semester hours of credit beyond the B.A. Students with a criminology or closely related M.A. received in the last 7 years from an accredited U.S. university may request that up to 30 hours credit from their M.A. work be counted toward this total. Those with an M.A. from this department may apply 36 hours. The Department requires Ph.D. students to complete at least 66 hours of course work (excluding research credits), including the M.A. hours. Qualifying examinations take place at the end of a student's course work.

Criminology, Law and Society/Law joint degree programs: The Department of Sociology and Criminology & Law (CLS) and the College of Law offer a joint degree program leading to an M.A. or a Ph.D. in Criminology, Law and Society and a J.D. in law. The joint degree programs enable students to earn both the degrees (the J.D. and the M.A. or the J.D. and the Ph.D.) in less time than would be required to earn both degrees consecutively. Students wishing to pursue the joint program must be admitted to both the Graduate School and the College of Law. These requirements include both the LSAT and GRE. Admission to one may precede the other. Students are encouraged to announce their intent to seek a joint degree as soon as possible. CLS allows 12 hours of appropriate law school courses to be credited toward the CLS degree. The 12 credits selected from the law curriculum must be approved by the graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in graduate courses to be credited toward the J.D.

Degrees

Doctor of Philosophy

Master of Arts

Courses

- CCJ 5934: Contemporary Issues in Criminology and Law
- CCJ 6936: Proseminar in Crime, Law, and Justice
- CJL 6039: Law and Society
- CCJ 6063: Communities and Crime
- CCJ 6658: Drugs, Crime, and Policy
- CCJ 6285: Criminal Justice Process
- CCJ 6619: Crime and the Life Course
- CCJ 6643: White Collar Crime
- CCJ 6705: Research Methods in Crime, Law, and Justice
- CCJ 6708: Research Issues in Crime and Deviance
- CCJ 6712: Evaluation Research
- CCJ 6905: Independent Study
- CCJ 6910: Supervised Research
- CCJ 6920: Seminar in Criminological Theory
- CCJ 6971: Research for Master's Thesis
- CCJ 7742: Research Methods in Crime, Law, and Justice II
- CCJ 7921: Professional Development in Criminology, Law, and Society
- CCJ 7979: Advanced Research
- CCJ 7980: Research for Doctoral Dissertation
- CJC 6120: Corrections and Public Policy
- CJL 6089: Humanitarian Law
- CJL 6090: Law and Social Science
- CJL 6091: Anthropology of Law
- CJL 6095: Human Rights in Cultural Context

Sociology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Sociology and Criminology & Law Department](#)

Sociology Program Information

Sociologists conduct research to understand the social forces that shape all of our lives, often in hopes of improving everyday life and the life chances of each person. Graduate studies in sociology provide the people skills and technical skills to organize information, communicate analytical research to academic and lay audiences, and prepare well-reasoned and carefully-written reports and documents that contribute to societal well-being. Our award-winning and internationally-known faculty successfully mentor graduate students to complete their studies and become established in their professional academic and nonacademic careers.

We offer particular expertise in these areas: environment and resources, families, aging, gender, health, sexualities, life course, and race-ethnicity in US and global perspectives. There is also considerable expertise in: demography, social inequality, Latin American studies, Latino sociology, social psychology, deviance, and political sociology. We take great pride in the fact that our faculty are involved in interdisciplinary research projects that span nearly all of the University's colleges and academic programs, including the School of Natural Resources and the Environment, the Water Institute, the Emerging Pathogens Institute, the Center for Latin American Studies, the Center for European Studies, the Center for Women's Studies and Gender Research, the Health Science Center, and the Jewish Studies Center. Wherever you go on campus, you will most likely find at least one Sociologist from our department making major contributions.

Minimum requirements for the M.A. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog

Admission to either Sociology graduate program requires a bachelor's degree in Sociology or related social science as approved by the Department. Current UF students may also enter the M.A. program through the combined B.A./M.A. program. The Sociology graduate programs look for mature students with outstanding potential and research interests that complement those of our faculty.

Prospective students should examine the research interests of the Sociology Graduate Faculty to obtain a more detailed sense of faculty expertise and research areas, see the department website: <http://soccrim.clas.ufl.edu/graduate/>. Applications for admission and fellowship support are due December 1 of each year. Students planning to apply for admission should take the Graduate Record Examination at the earliest possible date.

Degrees Offered with a Major in Sociology

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Tropical Conservation and Development

Courses

- SYA6018: Classical Social Theories
- SYA6126: Contemporary Sociological Theory
- SYA6305: Methods in Social Research I
- SYA6306: Methods in Social Research II
- SYA6315: Qualitative Research Methods
- SYA6327: Research Problems in Deviance
- SYA6407: Quantitative Research Methods
- SYA6905: Individual Work
- SYA6910: Supervised Research
- SYA6942: Applied Social Research Project
- SYA6971: Research for Master's Thesis

- SYA 7933: Special Study in Sociology
- SYA 7979: Advanced Research
- SYA 7980: Research for Doctoral Dissertation
- SYD 6436: Metropolitan Growth and Development
- SYD 6517: Seminar in Environment and Society
- SYD 6518: Core Issues in Environmental and Resource Sociology
- SYD 6706: Racial and Ethnic Relations
- SYD 6707: Black and White Americans: Sociological Perspectives
- SYD 6807: Sociology of Gender
- SYD 6825: Men and Masculinities
- SYD 7808: Reproduction and Gender
- SYO 6107: American Families
- SYO 6126: Family Theories
- SYO 6175: Topics in Family Research
- SYO 6407: Health Disparities
- SYO 6427: Health and Aging
- SYO 6535: Social Inequality
- SYD 6806: Gender and Society
- SYP 6115: Seminar in Symbolic Interaction
- SYP 6517: Theories of Crime and Deviance
- SYP 6545: Sociology of Law
- SYP 6735: Sociology of Aging and the Life Course
- SYP 6736: Sociology of the Aged
- SYP 6745: Aging and End-of-Life Issues

English Department

Chair: K. Kidd

Graduate Coordinator: S. I. Dobrin

Complete faculty listing by department: [Follow this link.](#)

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English, along with the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. For more information about our programs, please follow the hyperlinks below or visit our website: <http://www.english.ufl.edu/programs.html>.

Other

Creative Writing

College

[College of Liberal Arts and Sciences](#)

Department/School

[English Department](#)

Creative Writing Program Information

The Department of English offers the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.F.A. are provided in the [Graduate Degrees](#) section of this catalog. Full information concerning courses of study is available from the graduate coordinator.

Degrees

Master of Fine Arts

English Departmental Courses

- AML 6017: Studies in American Literature Before 1900
- AML 6027: Studies in 20th-Century American Literature
- CRW 6130: Fiction Writing
- CRW 6166: Studies in Literary Form
- CRW 6331: Verse Writing
- CRW 6906: Individual Work
- ENC 5236: Advanced Business Writing for Accounting
- ENC 6428: Digital English
- ENG 6016: Psychological Approaches to Literature
- ENG 6075: Literary Theory: Issues
- ENG 6076: Literary Theory: Theorists
- ENG 6077: Literary Theory: Forms
- ENG 6137: The Language of Film
- ENG 6138: Studies in the Movies
- ENG 6906: Individual Work
- ENG 6910: Supervised Research
- ENG 6932: Film and Video Production
- ENG 6971: Research for Master's Thesis
- ENG 7939: Seminar in Variable Topics
- ENG 7979: Advanced Research
- ENG 7980: Research for Doctoral Dissertation
- ENL 6206: Studies in Old English
- ENL 6216: Studies in Middle English
- ENL 6226: Studies in Renaissance Literature
- ENL 6236: Studies in Restoration and 18th-Century Literature
- ENL 6246: Studies in Romantic Literature
- ENL 6256: Studies in Victorian Literature
- ENL 6276: Studies in 20th-Century British Literature
- LAE 6940: Supervised Teaching
- LAE 6947: Writing Theories & Practices
- LIT 5335: Approaches to Children's and Adolescent Literature
- LIT 6037: Studies in Verse
- LIT 6047: Studies in Drama
- LIT 6309: Communications and Popular Culture
- LIT 6236: Postcolonial Studies
- LIT 6308: Studies in Comics and Animation
- LIT 6327: Studies in Folklore
- LIT 6357: African-Amer. or African Diaspora Lit./Cultures
- LIT 6358: Theoretical Approaches to Black Cultural Studies
- LIT 6855: Issues in Cultural Studies
- LIT 6856: Cultural Studies: Interventions
- LIT 6857: Cultural Studies: Movements
- LIT 6934: Variable Topics
- SPC 6239: Studies in Rhetorical Theory

English

College

[College of Liberal Arts and Sciences](#)

Department/School

[English Department](#)

English Program Information

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English with the specializations listed below. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. Specific areas of specialization for the Master of Arts and the Doctor of Philosophy include literature (Medieval, Renaissance, Restoration, and 18th-century and 19th-century British literature, American literature to 1900, contemporary British and American literature), American studies, critical theory, cultural studies, film and media studies, feminisms, genders and sexualities, postcolonial studies, composition and rhetoric, comics and visual rhetoric, and children's literature.

New graduate students should have completed an undergraduate English major of at least 24 semester hours, and doctoral students should have a Master of Arts degree in English. Full information concerning courses of study is available from the graduate coordinator.

Degrees

Doctor of Philosophy

Master of Arts

English Departmental Courses

- AML 6017: Studies in American Literature Before 1900
- AML 6027: Studies in 20th-Century American Literature
- CRW 6130: Fiction Writing
- CRW 6166: Studies in Literary Form
- CRW 6331: Verse Writing
- CRW 6906: Individual Work
- ENC 5236: Advanced Business Writing for Accounting
- ENC 6428: Digital English
- ENG 6016: Psychological Approaches to Literature
- ENG 6075: Literary Theory: Issues
- ENG 6076: Literary Theory: Theorists
- ENG 6077: Literary Theory: Forms
- ENG 6137: The Language of Film
- ENG 6138: Studies in the Movies
- ENG 6906: Individual Work
- ENG 6910: Supervised Research
- ENG 6932: Film and Video Production
- ENG 6971: Research for Master's Thesis
- ENG 7939: Seminar in Variable Topics
- ENG 7979: Advanced Research
- ENG 7980: Research for Doctoral Dissertation
- ENL 6206: Studies in Old English
- ENL 6216: Studies in Middle English
- ENL 6226: Studies in Renaissance Literature
- ENL 6236: Studies in Restoration and 18th-Century Literature
- ENL 6246: Studies in Romantic Literature
- ENL 6256: Studies in Victorian Literature
- ENL 6276: Studies in 20th-Century British Literature
- LAE 6940: Supervised Teaching
- LAE 6947: Writing Theories & Practices
- LIT 5335: Approaches to Children's and Adolescent Literature
- LIT 6037: Studies in Verse
- LIT 6047: Studies in Drama
- LIT 6309: Communications and Popular Culture
- LIT 6236: Postcolonial Studies
- LIT 6308: Studies in Comics and Animation
- LIT 6327: Studies in Folklore
- LIT 6357: African-Amer. or African Diaspora Lit./Cultures
- LIT 6358: Theoretical Approaches to Black Cultural Studies
- LIT 6855: Issues in Cultural Studies
- LIT 6856: Cultural Studies: Interventions
- LIT 6857: Cultural Studies: Movements
- LIT 6934: Variable Topics
- SPC 6239: Studies in Rhetorical Theory

Geography Department

Chair: M. W. Binford

Graduate Coordinator: C. J. Matyas

Complete faculty listing by department: [Follow this link.](#)

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

The focus of the Department is in human-environment interactions, with "environment" interpreted very broadly. The Department provides four main areas of specialization for graduate research: economic and cultural geography; resource management and land use and land cover change; medical geography; and physical geography. Economic and cultural geography concerns such topics as spatial economic theory and; housing and care of the elderly. Resource management and land-use and land-cover change focus on agricultural change and resource conservation and development in the tropics and subtropics, and rural and urban land use and land cover change in tropical and temperate regions. Africa and Latin America are the primary areas of regional emphasis outside of the U.S. Physical geography in the Department concentrates on climatology, fluvial geomorphology, and hydrology. Medical geography studies the geographic aspects of human health including disease ecology and transmission and healthcare issues. The Department's extensive geographic information system, remote sensing, and computer cartography teaching and research facilities contribute to and support all of the areas of research. Faculty from the Department are also major participants in the Emerging Pathogens Institute, Florida Climate Institute, Land Use and Environmental Change Institute (L.U.E.C.I.), and the Water Institute. Prospective students should examine the research interests of the Graduate Faculty to obtain a more detailed sense of the Department's specialties (see the departmental website: www.geog.ufl.edu).

To ensure the incorporation of relevant interdisciplinary perspectives in each student's program, the Department maintains close ties with other departments in Liberal Arts and Sciences, and with programs in African studies, Latin American studies, the School of Natural Resources and Environment, the Institute on Aging, urban and regional planning, tropical agriculture, tropical

ecology,, water resources, the Warrington College of Business Administration, the College of Agricultural and Life Sciences, College of Public Health and Health Professions, and the Hydrological Sciences Academic Cluster. Certificates in certain of these fields may be obtained in addition to graduate degrees in geography. Geography administers the Graduate Certificate in Applied Atmospheric Sciences.

A graduate student should preferably have an undergraduate major in geography, but applicants with degrees in one of the social or physical sciences are accepted into the Department's graduate program. Deficiencies in undergraduate work in geography must be corrected concurrently with registration in graduate level courses. All students in the graduate program are required to take courses in contemporary geographic thought and geographic research skills.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Geography

College

[College of Liberal Arts and Sciences](#)

Department/School

[Geography Department](#)

Geography Program Information

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

Degrees

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Arts

without a concentration

concentration in Applications of Geographic Technologies

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Arts in Teaching

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Applications of Geographic Technologies

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- GEA 6419: Seminar: South America
- GEA 6466: Seminar on Geography of Amazonia
- GEA 6468: Resource Utilization and Conservation in Latin America
- GEO 5305: Environmental Biogeography
- GEO 5346: Natural Hazards
- GEO 5556: Geography of Innovation and Technological Change
- GEO 5605: Advanced Urban Geography
- GEO 5809: Geography of World Agriculture
- GEO 5905: Individual Study: Directed Reading
- GEO 5920: Geography Colloquium
- GEO 5945C: Field Course in Geography
- GEO 6118: Contemporary Geographic Thought and Research
- GEO 6119: Proposal Writing in Geography
- GEO 6160: Introduction to Quantitative Methods for Geographers
- GEO 6161: Intermediate Quantitative Methods for Geographers
- GEO 6166: Advanced Quantitative Methods for Spatial Analysis
- GEO 6255: Climatology
- GEO 6282: Fluvial Morphology
- GEO 6348: Floods Seminar
- GEO 6375: Land Change Science Seminar
- GEO 6429: Seminar: Cultural Geography
- GEO 6435: Seminar in Population
- GEO 6451: Medical Geography
- GEO 6495: Environment and Behavior
- GEO 6905: Individual Work
- GEO 6921: How to Survive and Thrive in Academia
- GEO 6931: Seminar in Cultural and Political Ecology
- GEO 6938: Selected Topics in Geography
- GEO 6971: Research for Master's Thesis
- GEO 7979: Advanced Research
- GEO 7980: Research for Doctoral Dissertation
- GEY 6341: Shelter and Care Options for U.S. Elderly
- GIS 5008C: Maps and Graphs
- GIS 5009C: Advanced Cartography
- GIS 5028C: Advanced Aerial Photo Interpretation
- GIS 5038C: Remote Sensing
- GIS 5107C: Geographic Information Systems in Research
- GIS 5306: Geographic Information Systems Applications in Environmental Systems
- GIS 5540: Business Geography and New Real Estate Market Analysis
- GIS 6104: Spatial Networks
- GIS 6425C: GIS Models for Public Health
- MET 5504: Weather and Forecasting
- MET 6530: Hurricanes
- MET 6565: Seminar in Atmospheric Teleconnections
- MET 6752: Atmospheric Data Analysis

Geological Sciences Department

Chair: P. A. Mueller.

Graduate Coordinator: J. M. Jaeger.

Complete faculty listing: [Follow this link.](#)

The Department of Geological Sciences is composed of a group of internationally recognized faculty, graduate students, and dedicated support staff. Faculty and students in the Department of Geological Sciences are involved in exciting and groundbreaking research projects throughout the world and in Florida. The Department houses world-class analytical and computing facilities for research and teaching.

The Department has identified six primary areas of emphasis in its research and teaching programs: environmental geology and hydrology, paleoclimatology, tectonophysics, geochemistry and mineralogy/petrology, marine and coastal geology, and paleomagnetism. For more detailed information on current departmental activities, faculty, and research centers, see

<http://web.geology.ufl.edu>. The Department has collaborative, interdisciplinary programs of study and research with the Florida Museum of Natural History, the Center for Wetlands Research, the Land Use and Environmental Change Institute (L.U.E.C.I.), and the hydrological sciences cluster.

Other

Geology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Geological Sciences Department](#)

Geology Program

The Department of Geological Sciences offers programs leading to the Master of Science (thesis), the Master of Science in Teaching (nonthesis), and the Doctor of Philosophy degrees in geology. Requirements for these degrees are described in the General Information section of this catalog.

For admission to graduate status in the Department of Geological Sciences, a student must have a baccalaureate degree with a major in geology or a related field or its equivalent. Deficiencies in undergraduate preparation can be corrected by completing the undergraduate courses without credit while enrolled as a graduate student.

Applicants should take the GRE general test. The scores of this examination must be reported to the Department of Geological Sciences. Three letters of recommendation are also required for admission to the doctoral program and for financial aid applications at any level.

A minimum of 33 semester hours of graduate level courses are required for the Master of Science in geology. At least 24 hours must be in organized graduate-level geology courses (excluding research, teaching, special projects, etc.). Six hours of thesis research credit are required. All master's degrees are terminal; a separate and new application for admission to the doctoral program is required.

For the Master of Science in Teaching degree, at least 36 hours are required. Six of these hours must be in [GLY 6943](#) and at least 24 must be in organized graduate-level geology courses. The remaining 6 hours must be in approved electives. A minor in education is required. Candidates also must pass the final oral examination.

Of the 90 semester hours required for the Ph.D., 45 must be in formal, organized graduate-level class work (excluding individual work, supervised research and teaching, advanced research, dissertation, special projects, etc.). Remaining credits will be in [GLY 7979](#) and [GLY 7980](#), additional geology courses, or courses in a related field.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Degrees

Doctor of Philosophy

without a concentration

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- BOT 5305: Paleobotany
- ESC 5211: Current Topics in Earth Science for Teachers
 - ESC 5211L
 - GLY 5020
 - GLY 5020L
 - GLY 5075
- GLY 5156: Geologic Evolution of North America
- GLY 5246: Geochemistry
- GLY 5245: Hydrogeochemistry
- GLY 5247: Surface and Ground Water Interactions
- GLY 5248: Physical Geochemistry
- GLY 5255: Organic Geochemistry and Geobiology
- GLY 5328: Advanced Igneous Petrology
- GLY 5455: Introduction to Geophysics and Tectonics
 - GLY 5456
- GLY 5466: Seismology and Earth Structure
- GLY 5468: Terrestrial Gravity and Magnetism
- GLY 5476: Environmental Geophysics
- GLY 5558C: Sedimentology
- GLY 5576: Continental Margin Stratigraphy
- GLY 5705: Geomorphology
- GLY 5736: Marine Geology
- GLY 5786L: Topics in Field Geology

- GLY 5827: Ground Water Geology
- GLY 6075: Global Climate Change: Past, Present, and Future
- GLY 6268C: Isotope Geology
- GLY 6297: Topics in Geochemistry
 - GLY 6424
- GLY 6425: Tectonics
- GLY 6519: Stratigraphy and Timescales
- GLY 6620C: Micropaleontology
 - GLY 6660C
- GLY 6695: Topics in Paleoclimatology
- GLY 6826: Hydrogeologic Modeling
- GLY 6862: Numerical Methods in Earth Sciences
- GLY 6905: Individual Work
- GLY 6931: Seminar
- GLY 6932: Special Topics in Geology
- GLY 6940: Supervised Teaching
- GLY 6943: Internship in College Teaching
- GLY 6971: Research for Master's Thesis
- GLY 7979: Advanced Research
- GLY 7980: Research for Doctoral Dissertation

History Department

[College of Liberal Arts and Sciences](#)

Chair: Sean P. Adams

Graduate Coordinator: Elizabeth Dale

The Department of History offers the following graduate degrees: Master of Arts with fields of specialization in African, Asian, European, Latin American, and United States history, and the Doctor of Philosophy with fields of specialization in African, European, Latin American, and United States history. In addition to materials required by the Graduate School for admission, applicants must send directly to the History Department the following evidence of aptitude and interest: Three recommendations, from persons competent to evaluate your potential for graduate work; A 3- to 5-page essay identifying your career goals and particular areas of interest; a sample of your written work in history. Interested students should consult the department web page for more information. □□

Other

History

College

[College of Liberal Arts and Sciences](#)

Department/School

[History Department](#)

History Program

The Department of History offers the following graduate degrees: Master of Arts degree with fields of specialization in African, Asian, European, Latin American, and United States history and the Doctor of Philosophy degree with fields of specialization in African, European, Latin American, and United States history, or with a dual major which allows students to create their own major fields.

Master of Arts: This degree serves to prepare students for admission to a Ph.D. program, for a teaching career in high school or community colleges, or for a career in government or business. □□

Fields of specialization: □□

–African (East Africa, Southern Africa, West Africa) □□

–European (medieval, early modern, or modern) □□

–Latin American (colonial Latin America, post-Colonial Latin America, Brazil, and the Caribbean or Spanish America) □□

–United States history (early America, 19th century, 20th century) □□

Thesis option requirements: □□

–A minimum of 30 credit hours □□

–At least 12 graduate-level regular course credit hours in your major field. In European, you must take at least two seminars in your area of specialization. In U.S. history, you must take the 19th-century America readings seminar, either the 20th-century or early America readings seminar, and at least one research seminar. In Latin American and African history, you must take the relevant readings seminars in your area of specialization, one other readings seminar, and at least one research seminar. □□

–At least 6 graduate-level regular course credit hours outside the major field (but in the Department of History). We recommend that you invest these regular course hours in readings seminars. □□

–Take 3 hours of historiography ([HIS 6061](#)) by the fourth semester of graduate study. □□

–Take 3 regular course credit hours from outside the Department. These should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your

adviser.□□

–Complete a master's thesis. The semester you graduate, you must be registered for a minimum of 3 thesis research hours ([HIS 6971](#)) in the fall or spring terms or 2 in a summer term. Your thesis should demonstrate your ability to handle the primary-source material of your field, and a working knowledge of the secondary literature; and should demonstrate your ability to present research results in a coherent, well-written study. The student must complete the thesis and make it available to readers 2 weeks before the oral examination, complete the application for the degree at the Office of the University Registrar before the deadline, and take the examination.□□

–Each student must pass a final comprehensive oral examination at the end of the program.□□

Non-thesis option requirements:□□

–A minimum of 30 credit hours.□□

–At least 12 graduate-level regular course credit hours inside your major field. In European, you must take at least two seminars in your area of specialization. In U.S. history, you must take the 19th-century American readings seminar, either the 20th-century or the early America readings seminar, and at least one research seminar. In Latin American or African history, you must take the relevant readings seminars in your area of specialization, one other readings seminar, and at least one research seminar.□□

–At least 6 graduate-level regular course credit hours outside your major field (but in the Department of History). We recommend that you invest these regular course hours in readings seminars.□□

–Take 3 hours of historiography ([HIS 6061](#)) by your fourth semester of graduate study.□□

–Take 3 regular course credit hours from outside the Department; these should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser.□□

–Complete a research seminar and/or a nonthesis project in history. Your primary goal in either is to complete an article-length essay (approximately 35 to 40 pages) of publishable or near-publishable quality. The essay should be based largely on primary sources.□□

–You must pass a final comprehensive oral and written examination conducted by your supervisory committee.□□

Supervisory committee for the M.A.: The committee normally consists of the chair and two other members of the graduate faculty. Additional members may be added if desirable. The committee assists in planning and supervising the student's program and conducts the final examination. The chair is also the thesis director if that option is chosen.□

Duration: The M.A. program can be completed in 3 semesters of full-time registration but may take longer. The Department believes that normally no more than 4 semesters of full-time registration should be spent on the degree. These semesters need not be consecutive. The Board of Education has established 60 credit hours as a maximum for the master's degree. Up to 6 credits of graduate-level courses taken at another school with a grade of B or better may be transferred into the master's program if approved by the Graduate School.

Bachelor's/master's program: The Department offers a combined 4/1 degree program that enables outstanding undergraduates to obtain both the B.A. and M.A. degrees in history after successful completion of 150 credit hours. The program is designed for the students who wish to continue their education in history past the bachelor's level but do not intend to pursue a doctorate in history or for students who wish to expand their training in a specific field before moving on to a doctoral program. The department offers a 4/1 degree program in the standard M.A. fields of study and offers two specialized tracks: oral history and academic publishing. Please see the Department website for more information. Students in this program are not eligible for departmentally controlled financial aid.

Doctor of Philosophy requirements:□□

–Professional competence in your major field, or major fields for students pursuing a dual degree.□□

–Knowledge of a minor, which may be drawn from the approved major fields of specialization for the doctorate (African, European, Latin American, or U.S. history), from approved minor fields (Atlantic history, gender, legal history), or may be self designed as a thematic research or teaching field. It must include at least 3 hours outside the historical area that defines your major field. Note: Students pursuing a dual major do not take a department minor field.

–At least 3 regular course credit hours from outside the Department; these should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser.□□

–Pass a set of written and oral qualifying examinations testing competence in major and additional fields and your knowledge of the nature of history and the historian's task.□□

–A dissertation for which credit is given in [HIS 7980](#).□□

History/law joint degree program: The Department of History and the College of Law offer a program in legal history leading to either the M.A. or a Ph.D. degree in history and the J.D. in law. Because the faculties of history and law stress interdisciplinary training, students admitted to the joint degree program will be allowed to count a significant number of hours toward both degrees. Applicants must be accepted by both the Graduate School and the College of Law. Normally, students will complete the course and examination requirements of both degrees in 4 years. Students may begin their first year of work in either history or law, but they must complete the first year of law school within 1 year and they must do so within the first 2 years after admission to the joint degree program. □□For further information write to the Legal History Coordinator, Department of History, University of Florida, Box 117320, Gainesville, FL 32611-7320.□

Degrees

Doctor of Philosophy

without a concentration

concentration in Historic Preservation

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Historic Preservation

concentration in Jewish Studies

Courses

- AFH 5297: History of African Agriculture
- AFH 5348: History of West Africa
- AFH 5458: Southern Africa
- AFH 5934: Topics in African History
- AFH 6259: Seminar in Modern Africa
- AFH 6805: Theories and Methods of African History
- AFH 6934: Africa
- AFH 6936: Readings in African History
- AMH 5405: The South to 1860
- AMH 5905: Special Studies
- AMH 5930: Topics in United States History
- AMH 6198: Early American Society
- AMH 6199: Nineteenth Century America
- AMH 6290: Modern America
- AMH 6356: Research in U.S. History
- AMH 6406: Readings in Southern History, 1607-1865
- AMH 6465: Seminar in U.S. Urban History
- AMH 6506: Seminar in American Labor History
- AMH 6516: Seminar in American Foreign Relations and Expansion
- AMH 6557: Seminar in Constitutional or Legal History of the United States
- ASH 5388: Topics in East Asian History
- EUH 5546: Topics in British History
- EUH 5934: Topics in European History
- EUH 6126: Readings in Medieval History
- EUH 6174: Conversion in the Middle Ages
- EUH 6175: Ethnicity in the Middle Ages
- EUH 6176: Villages and Peasants in the Middle Ages
- EUH 6177: Economy and Society in Late Antiquity and the Early Middle Ages
- EUH 6213: Europe, 1500-1763
- EUH 6289: Readings, Modern Europe
- EUH 6469: Modern German History
- EUH 6935: Readings, Early Modern Europe
- EUH 6937: Readings in Mediterranean History
- HIS 5450: Slavery in the New World: Comparative Perspectives
- HIS 5484: Science and the Enlightenment
- HIS 5485: Special Studies in the History of Science
- HIS 6060: Historical Method
- HIS 6061: Introduction to Historiography
- HIS 6416: Problems in Comparative Legal History
- HIS 6445: Postcolonial Theories
- HIS 6469: Topics in Historiography of History of Science
- HIS 6478: Topics in the Scientific Revolution
- HIS 6480: Pre-Newtonian Sciences
- HIS 6488: Readings in the History of Science
- HIS 6905: Individual Study
- HIS 6910: Supervised Research
- HIS 6940: Supervised Teaching
- HIS 6943: Internship in College Teaching
- HIS 6957: Nonthesis Project in History
- HIS 6971: Research for Master's Thesis
- HIS 7979: Advanced Research
- HIS 7980: Research for Doctoral Dissertation
- LAH 5438: Modern Mexico
- LAH 5475: Caribbean, Nineteenth and Twentieth Centuries
- LAH 5476: Caribbean History to 1800: Slavery, Colonization, and International Conflict

- LAH 5527: Andean Nations
- LAH 5607: History of Amazonia
- LAH 5637: Brazil Since 1750
- LAH 5933: Topics in Caribbean History
- LAH 5934: Topics in Latin American History
- LAH 6934: Seminar in Colonial Spanish America
- LAH 6936: Seminar in History of Brazil
- LAH 6938: Seminar in Modern Spanish America
- EUH 5195: The Archaeology of the Middle Ages

Department of Languages, Literatures and Cultures

Complete faculty listing by department: [Follow this link.](#)

Other

French and Francophone Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

French and Francophone Studies Program Information

Bachelor's/master's program: French and Francophone Studies offers a combined 4/1 degree program that enables outstanding undergraduates to obtain both the B.A. and M.A. degrees after successful completion of 152 credit hours. The program is designed for the students who wish to continue their education in French and Francophone Studies past the bachelor's level but do not intend to pursue a doctorate or for students who wish to expand their training in a specific field before moving on to a doctoral program. Since students in the bachelor's/master's program have a graduate classification, students receiving undergraduate scholarships or Pell grants should check with the funding provider to make sure that they will not lose eligibility. □□

Degrees

Master of Arts

Master of Arts in Teaching

Courses

- FLE 6385: Foreign Languages Teaching Methods
- FRE 6060: Beginning French for Graduate Students I
- FRE 6061: Beginning French for Graduate Students II
- FRE 6466: Advanced Translation and Stylistics
- FRE 6735: Special Studies in French Linguistics
- FRE 6736: The French language in the Americas
- FRE 6785: French Phonetics and Phonology
- FRE 6827: Sociolinguistics of French
- FRE 6845: History of the French Language
- FRE 6855: Structure of French
- FRE 6856: French in the 21st Century
- FRE 6940: Supervised Teaching
- FRE 6943: Romance Language Teaching Methods

- FRE 6945: Practicum in Advanced College Teaching
- FRE 6956: Overseas Studies in French
- FRW 6217: Seventeenth-Century French Prose
- FRW 6276: Readings in Eighteenth-Century Literature
- FRW 6288: Twentieth-Century French Novel
- FRW 6315: Seventeenth-Century French Drama
- FRW 6328: Twentieth-Century French Theater
- FRW 6346: French Poetry of the Renaissance
- FRW 6355: Modern French Poetry
- FRW 6396: French Cinema
- FRW 6416: Later French Medieval Literature
- FRW 6536: The Romantic Period
- FRW 6556: French Realism and Naturalism
- FRW 6715: The Philosophic Movement
- FRW 6780: Studies in Francophone Literature and Culture (Excluding the Caribbean and Sub-Saharan Africa)
- FRW 6805: Introduction to Graduate Study and Research
- FRW 6825: French Critical Theory
 - FRW 6827
- FRW 6900: Special Study in French Literature
- FRW 6905: Individual Work
- FRW 6910: Supervised Research
- FRW 6938: Seminar in French Literature
- FRW 6971: Research for Master's Thesis
- FRW 7979: Advanced Research
- FRW 7980: Research for Doctoral Dissertation

German

Chair: M. Watt

Graduate Coordinator: W. Hasty

Complete faculty listings: [Follow this link.](#)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

Degrees

Doctor of Philosophy

without a concentration

concentration in Women's/Gender Studies

Master of Arts

German Literature and Cinema

- GET 6295: Weimar Cinema
- GET 6299: New German Cinema and its Legacy
- GEW6205: Foundations of Literary Study
- GEW6266: History of the German Novel
- GEW6305: Studies in German Drama and Theater
- GEW6405: Medieval and Renaissance Literature
- GEW6425: From Luther to Lessing: Early Modern German Literature
- GEW6535: German Classical and Romantic Literature
- GEW6558: Young Germany, Biedermeier, Realism, and Naturalism
- GEW6725: Culture and Society in the Weimar Republic
 - GEW 6726
- GEW6735: Modern German Literature
- GEW6736: Contemporary German Literature
- GEW6745: Literature and Culture in the Third Reich
- GEW6826: German Literary Theory
- GEW6900: Seminar in Germanic Languages and Literatures
- GEW6901: Special Study in Germanic Languages and Literatures
- GEW6905: Independent Study
- GEW6910: Supervised Research
- GEW6971: Research for Master's Thesis
- GEW7979: Advanced Research
- GEW7980: Research for Doctoral Dissertation

German Language

- GER 6060: Beginning German for Graduate Students I
- GER 6061: Beginning German for Graduate Students II
- GER 6505: German Culture
- GER 6940: Supervised Teaching

Romance Languages (Language, Literature and Culture)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

Degrees Offered with a Major in Romance Languages

Doctor of Philosophy

concentration in French and Francophone Studies

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study

- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Latin American Studies Department

Director: C. D. Deere.

Graduate Coordinator: R. F. Brown.

Complete faculty listing by department: [Follow this link.](#)

The Center for Latin American Studies offers the following graduate programs:

- Latin American Studies
- Sustainable Development Practice

Other

Latin American Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Latin American Studies Department](#)

Latin American Studies Program

The Center for Latin American Studies offers the following graduate programs:

- An interdisciplinary Master of Arts degree
- Graduate certificate and advanced graduate certificate in Latin American studies in conjunction with disciplinary degrees in the Colleges of Agricultural and Life Sciences; Design, Construction, and Planning Business Administration; Education; Fine Arts; Journalism and Communications; Law; and Liberal Arts and Sciences.

The graduate program in Latin American studies relies on over 250 courses with Latin American content taught in more than 35 academic units of the above colleges. The degree and certificate programs in Latin American studies are described on their website www.latam.ufl.edu/academics/graduate-programs. Complete course listings are available at the Center for Latin American Studies (319 Grinter Hall) and on the website.

Degrees

Master of Arts

without a concentration

concentration in Tropical Conservation and Development

Latin American Studies Courses

- FOT 6940: Translation Studies Practicum
- LAS 6008: Ecological Principles
- LAS 6220: Issues and Perspectives in Latin American Studies
- LAS 6290: Tropical Conservation and Development
- LAS 6291: Conservation and Development Skills
- LAS 6292: Tropical Conservation and Development Research Methods
- LAS 6293: Design and Methods of Research in Latin American Studies
- LAS 6295: Latin American Business Environment
- LAS 6296: Latin American Business Topics
- LAS 6905: Individual Work
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6940: Tropical Conservation and Development Practicum
- LAS 6943: Development Theory and Practice in Latin America
- LAS 6971: Research for Master's Thesis

Sustainable Development Practice

College

[College of Liberal Arts and Sciences](#)

Department/School

[Latin American Studies Department](#)

Sustainable Development Practice Program

Director: G. Galloway

Program Coordinator: C. Tarter

The Master of Sustainable Development Practice (MDP) Program offers the following academic programs:

- An interdisciplinary Master's degree in Sustainable Development Practice
- A graduate certificate in Sustainable Development Practice

The MDP Program is jointly administered by the Center for Latin American Studies and the Center for African Studies. The Master's degree is described in the *Other Master's Degrees* section of the Graduate Catalog. The certificate program is described in the *Interdisciplinary Graduate Certificates* section of the Graduate Catalog. More information about the MDP Program can also be found at the website <http://www.africa.ufl.edu/mdp/index.html>.

Degrees

Master of Sustainable Development Practice

Sustainable Development Courses

- AFS 6905: Individual Work in African Studies
- EVR 5705: Natural Resources and Innovation Systems
- LAS 6291: Conservation and Development Skills
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6943: Development Theory and Practice in Latin America
- PHC 6445: Global Public Health and Development II
- PHC 6764: Global Public Health and Development I

African Studies Courses

- AFS 5061: Africana Bibliography
- AFS 6060: Research Problems in African Studies
- AFS 6305: Development Theory and Practice Intro
- AFS 6307: Foundations of Economics for Sustainable Development
- AFS 6357: Anthropology of Humanitarian Intervention
- AFS 6905: Individual Work in African Studies

Latin American Studies Courses

- FOT 6940: Translation Studies Practicum
- LAS 6008: Ecological Principles
- LAS 6220: Issues and Perspectives in Latin American Studies
- LAS 6290: Tropical Conservation and Development
- LAS 6291: Conservation and Development Skills
- LAS 6292: Tropical Conservation and Development Research Methods
- LAS 6293: Design and Methods of Research in Latin American Studies
- LAS 6295: Latin American Business Environment
- LAS 6296: Latin American Business Topics
- LAS 6905: Individual Work
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6940: Tropical Conservation and Development Practicum
- LAS 6943: Development Theory and Practice in Latin America
- LAS 6971: Research for Master's Thesis

Additional Course Offerings

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship

- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Linguistics Department

Chair: F. McLaughlin

Graduate Coordinator: E. Potsdam

Complete faculty listing by department: [Follow this link](#)

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESOL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For detailed information on the program, please visit the link below. For further information on the program, including financial aid, please visit <http://lin.ufl.edu>.

Other

Linguistics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Linguistics Department](#)

Linguistics Program Information

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

For detailed information on the program, including financial aid, please visit the website <http://lin.ufl.edu>.

The Certificate in Second Language Acquisition and Teaching is offered to University of Florida graduate degree-seeking students in linguistics and related disciplines.

As part of its service to the University community, Linguistics also offers English as a Second Language training for international applicants and admitted students. These programs, the English Language Institute (ELI), Academic Written English (AWE), and Academic Spoken English (ASE), are described in the [Student Services](#) section of this catalog. This information, along with links to the application form, are available at <http://lin.ufl.edu>.

Applicants who lack a background in linguistics should develop basic competency in the core areas before commencing graduate work. These deficiencies can be met by taking LIN 3010, LIN 3201, and LIN 3460 or the equivalent.

Degrees

Doctor of Philosophy

Master of Arts

Linguistics Departmental Courses

- EAP 5835: Academic Spoken English I
- EAP 5836: Academic Spoken English II
- EAP 5837: Academic Spoken English Tutorial
- EAP 5845: Academic Writing
- EAP 5846: Research and Technical Writing
- EAP 5937: Special Topics in Academic Spoken English
- LIN 5657: Gender and Language
- LIN 5741: Applied English Grammar
- LIN 6084: Introduction to Graduate Research
- LIN 6165: Field Methods
- LIN 6208: Phonetics for Linguists
- LIN 6226: Advanced Phonetics
- LIN 6323: Phonology
- LIN 6341: Issues in Phonology
- LIN 6402: Morphology
- LIN 6410: Issues in Morphology
- LIN 6501: Syntax
- LIN 6520: Issues in Syntax
- LIN 6571: Structure of Specific Language
- LIN 6601: Sociolinguistics
- LIN 6622: Bilingualism
- LIN 6707: Psycholinguistics
- LIN 6708C: Methods in Psycholinguistics
- LIN 6720: Second Language Acquisition

- LIN 6773: Topics in Computational Linguistics
- LIN 6796: Cognitive Neuroscience of Language
- LIN 6804: Semantics I
- LIN 6826: Introduction to Formal Pragmatics
- LIN 6856: Semantics II
- LIN 6905: Individual Study
- LIN 6910: Supervised Research
- LIN 6932: Special Topics
- LIN 6940: Supervised Teaching
- LIN 6971: Research for Master's Thesis
- LIN 7118: History of Linguistics
- LIN 7641: Seminar in Language Variation
- LIN 7725: Topics in Second Language Acquisition
- LIN 7885: Discourse Analysis and Pragmatics
- LIN 7979: Advanced Research
- LIN 7980: Research for Doctoral Dissertation
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes

Mathematics Department

Chair: D. Cenzler

Graduate Coordinator: J. A. Larson

Complete faculty listing: [Follow this link.](#)

The Department of Mathematics offers the degrees of Doctor of Philosophy, Master of Science and Master of Arts, and the Master of Arts in Teaching and Master of Science in Teaching each with a major in mathematics. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

Interdisciplinary Programs — The Department offers a co-major program in conjunction with the Statistics Department leading to the Doctor of Philosophy degree in mathematics and statistics. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Statistics, Industrial and Systems Engineering, and Finance, Insurance, and Real Estate Departments.

Combined Program — The Department has an accelerated bachelor's/master's program designed for superior undergraduate students who have the ability to pursue such a plan of study leading to the Master of Science or Master of Arts degree. The main feature of the program is that up to 12 semester hours of approved graduate level mathematics courses may be used as dual credit for both the undergraduate and the graduate degree. All other requirements for both the bachelor's degree and the master's degree must be met. For admission requirements for this program, see the undergraduate coordinator.

There are opportunities for concentrated study in a number of specific areas of pure and applied mathematics at both the master's and doctoral levels. The faculty directs studies and research in algebra, number theory, analysis, geometry, topology, logic, differential equations, dynamical systems, probability theory, numerical analysis, numerical optimization, approximation theory, combinatorial analysis, graph theory, computer applications, biomathematics, mathematical physics, inverse problems, and medical imaging. In addition to the requirements of the Graduate School, the minimum prerequisite for admission to the program of graduate studies in mathematics is the completion, with an average grade of B or better, of at least 24 credits of undergraduate mathematics, including a full year of calculus and three semesters of appropriate work beyond the calculus. The most appropriate courses for this purpose are advanced calculus, linear algebra and abstract algebra. Students lacking part of the requirements will be required to make up the deficiency early in their graduate work. Prerequisites to individual courses should be determined before registration by consultation with the instructor concerned. Some of the courses listed are offered only as needed. Since times of offering courses are estimated a year in advance, certain changes may be made if needs are known by the Department. The courses [MAA 5228](#), [MAA 5229](#), [MAS 5311](#), and [MAS 5312](#) are required for all advanced degree programs in mathematics. The requirements for the master's degree nontesis option include a minimum of 32 semester hours of course work. Students pursuing the master's degree in mathematics must pass two comprehensive written examinations, one in algebra and one in analysis. Students pursuing the master's degree with a specialization in applied mathematics have two options: the examination option requires passage of the algebra and analysis examinations; the thesis option requires instead the preparation and oral defense of a thesis on original research conducted under the supervision of a faculty adviser. Students pursuing the Master of Arts in Teaching or the Master of Science in Teaching degree must prepare a teaching portfolio and pass an oral examination. Each of these programs normally requires two years for completion. The requirements for a doctoral degree include 36 hours of 6000-level course work in mathematics; no hours of teaching, colloquium, dissertation, or individual work will count toward this requirement. To become a candidate for the doctoral degree, the student must pass a comprehensive preliminary examination with written and oral components administered by the Department. The doctoral student must also pass a reading knowledge examination in one of the following foreign languages: French, German, or Russian. The dissertation is an important requirement for the doctoral degree in mathematics. The topic for the dissertation may be chosen from a number of areas of current research in pure and applied mathematics. Every graduate student is expected to attend the regular colloquium. Details concerning all requirements for graduate degrees in mathematics may be obtained by writing the Mathematics Department Graduate Selection Committee or consulting the Department website, <http://www.math.ufl.edu>.

Other

Mathematics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Mathematics Department](#)

Degrees

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

concentration in Quantitative Finance

Master of Arts in Teaching

Master of Science

Master of Science in Teaching

Courses

- MAA 5104: Advanced Calculus for Engineers and Physical Scientists I
- MAA 5105: Advanced Calculus for Engineers and Physical Scientists II
- MAA 5228: Modern Analysis I
- MAA 5229: Modern Analysis II
- MAA 5404: Introduction to Complex Variables for Engineers and Physical Scientists
- MAA 6236: Mathematical Analysis for Statisticians
- MAA 6406: Complex Analysis I
- MAA 6407: Complex Analysis II
- MAA 6616: Analysis I
- MAA 6617: Analysis II
- MAA 7526: Advanced Topics in Functional Analysis I
- MAA 7527: Advanced Topics in Functional Analysis II
- MAD 6206: Combinatorial Theory I
- MAD 6207: Combinatorial Theory II
- MAD 6406: Numerical Linear Algebra
- MAD 6407: Numerical Analysis
- MAD 7396: Topics in Combinatorial Theory I
- MAD 7397: Topics in Combinatorial Theory II
- MAE 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAP 5304: Intermediate Differential Equations for Engineers and Physical Scientists
- MAP 5345: Introduction to Partial Differential Equations
- MAP 5489: Modeling in Mathematical Biology
- MAP 6208: Numerical Optimization
- MAP 6327: Applied Differential Equations I
- MAP 6356: Partial Differential Equations I
- MAP 6357: Partial Differential Equations II
- MAP 6375: Numerical Partial Differential Equations
- MAP 6376: Finite Element Method
- MAP 6467: Stochastic Differential Equations and Filtering Theory I
- MAP 6468: Stochastic Differential Equations and Filtering Theory II
- MAP 6472: Probability and Potential Theory I
- MAP 6473: Probability and Potential Theory II
- MAP 6487: Biomathematics Seminar I
- MAP 6488: Biomathematics Seminar II
- MAP 6505: Mathematical Methods of Physics and Engineering
- MAP 6506: Mathematical Methods of Physics and Engineering II
- MAP 6941: Internship in Applied Mathematics
- MAP 7436: Seminar in Applied Mathematics I
- MAP 7437: Seminar in Applied Mathematics II
- MAS 5311: Introductory Algebra I
- MAS 5312: Introductory Algebra II
- MAS 6331: Algebra I
- MAS 6332: Algebra II
- MAS 7215: Theory of Numbers I
- MAS 7216: Theory of Numbers II
- MAS 7396: Advanced Topics in Algebra I
- MAS 7397: Topics in Algebra II

- MAT 6905: Individual Work
- MAT 6910: Supervised Research
- MAT 6932: Special Topics in Mathematics
- MAT 6971: Research for Master's Thesis
- MAT 7979: Advanced Research
- MAT 7980: Research for Doctoral Dissertation
- MHF 5107: Introduction to Set Theory
- MHF 5207: Foundations of Mathematics
- MHF 6306: Mathematical Logic I
- MHF 6307: Mathematical Logic II
- MTG 5316: Introduction to Topology I
- MTG 5317: Introduction to Topology II
- MTG 5411: Introduction to Fractal Geometry
- MTG 5412: Introduction to Dynamical Systems and Chaos
- MTG 6256: Differential Geometry I
- MTG 6257: Differential Geometry II
- MTG 6346: Topology I
- MTG 6347: Topology II
- MTG 6401: Ergodic Theory and Dynamical Systems I
- MTG 6402: Ergodic Theory and Dynamical Systems II
- MTG 7396: Advanced Topics in Topology I
- MTG 7397: Advanced Topics in Topology II

Philosophy Department

Chair: G. Witmer.

Graduate Coordinator: C. Liu.

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Arts and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog

Admission to the program requires a bachelor's degree in philosophy or sufficient course work in philosophy, as determined by the department. Applicants are evaluated on the basis of academic achievement, GRE scores, three letters of recommendation, a statement of purpose, and a sample essay in philosophy. Students may be admitted as for a terminal M.A. degree or for the Ph.D. Program.

The M.A. degree requires two years (36 hours) of course work. All graduate students take foundational courses in their first four semesters: the graduate Proseminar (PHI [PHI 5935](#)), Graduate Logic (PHI [5135](#)), a course in Ancient Philosophy (PHP [5005](#) or PHP [5015](#)), a course in Modern Philosophy (PHI [5405](#) or PHI [5406](#)), and either Foundations of Analytic Philosophy (PHP [5785](#)) or Epistemology (PHI [5365](#)).

The Ph.D. requires 90 credit hours, which may include 36 used as credit for the M.A. In addition to the foundational courses required for the M.A., the Ph.D. requires Ethical Theory (PHI [5665](#)) and both of PHP [5785](#) and PHI [5365](#). It also requires six courses at the advanced 6000-level, 3 proposal research hours and 12 doctoral research hours, and of course the successful completion and defense of a dissertation.

Further information about the department's programs and admissions can be obtained on the department's website web.phil.ufl.edu or by contacting the Graduate Coordinator, 330 Griffin-Floyd Hall, (352)392-2084 or gradcoord@phil.ufl.edu.

Other

Philosophy

College

[College of Liberal Arts and Sciences](#)

Department/School

[Philosophy Department](#)

Degrees

Doctor of Philosophy

Master of Arts

Master of Arts in Teaching

Courses

- PHH 5405: Modern Philosophy I
- PHH 5406: Modern Philosophy II
- PHH 5605: Studies in Continental Philosophy
- PHH 6105: Seminar in Ancient Philosophy
- PHH 6425: Seminar in Modern Philosophy
- PHI 5135: Graduate Logic
- PHI 5225: Philosophy of Language
- PHI 5325: Philosophy of Mind
- PHI 5365: Epistemology
- PHI 5405: Philosophy of Science
- PHI 5425: Philosophy of Social Science
- PHI 5505: Metaphysics
- PHI 5665: Ethical Theory
- PHI 5905: Individual Work
- PHI 5934: Topics in Philosophy
- PHI 5935: Proseminar
- PHI 6105: Seminar in Logic
- PHI 6226: Seminar in Philosophy of Language
- PHI 6306: Seminar in Epistemology
- PHI 6326: Seminar in Philosophy of Mind
- PHI 6406: Seminar in Philosophy of Science
- PHI 6506: Seminar in Metaphysics
- PHI 6667: Seminar in Ethics
- PHI 6787: Seminar in Continental Philosophy
- PHI 6905: Individual Work
- PHI 6910: Supervised Research
- PHI 6934: Special Topics
- PHI 6940: Supervised Teaching
- PHI 6971: Research for Master's Thesis
- PHI 7979: Advanced Research
- PHI 7980: Research for Doctoral Dissertation
- PHP 5005: Ancient Philosophy I
- PHP 5015: Ancient Philosophy II
- PHP 5785: Foundations of Analytic Philosophy
- PHP 6415: Seminar in Kant
- PHP 6795: Seminar in Analytic Philosophy
- PHP 6930: Seminar in a School or Thinker

Physics Department

[College of Liberal Arts and Sciences](#)

Chair: Kevin Ingersent

Graduate Coordinator: Guido Mueller

Complete faculty listings: [Follow this link](#).

The Department of Physics offers the Master of Science (thesis or nonthesis) and the Doctor of Philosophy degrees. The nonthesis Master of Science in Teaching is also offered. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Areas of specialization for graduate research include astrophysics and cosmology, atomic and molecular physics, biological physics, chemical physics, condensed matter physics (theory and experiment), nuclear physics, particle physics (theory and experiment), statistical physics, and low temperature physics.

Special interdisciplinary research programs include the Institute for Fundamental Theory (carried out jointly with the Department of Mathematics), the Institute for Theoretical and Computational Studies in Molecular and Materials Science (carried out jointly with the Department of Chemistry), the Institute of High Energy and Particle Astrophysics, and Microfabritech (jointly with the College of Engineering). A curriculum is offered by the Center for Chemical Physics for students interested in research related to chemistry or chemical engineering. The Center for Condensed Matter Sciences provides opportunities for investigations in a diverse range of subjects and fields, including the Microkelvin Research Laboratory. The University of Florida operates the National High Magnetic Field Laboratory jointly with Florida State University and Los Alamos National Laboratory.

The core curriculum is designed to provide a thorough foundation for all physics graduate students. It consists of [PHY 6246](#), [PHY 6346](#), [PHY 6347](#), [PHY 6536](#), [PHY 6645](#), and [PHY 6646](#). Doctoral students must achieve a 3.30 GPA in the core curriculum. All students must pass a preliminary examination at the undergraduate level. All degree candidates are required, as part of their graduate education, to participate continuously in the research and/or teaching programs of the Department.

For more information, please see the program page below, and visit our website: <http://www.phys.ufl.edu>.

Other

Physics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Physics Department](#)

Physics Program Information

The Department of Physics is dedicated to advancing the forefronts of knowledge in both pure and applied physics, thus providing an exciting intellectual climate for our graduate students. Our research activities include astrophysics (particle astrophysics, cosmology and gravitation), condensed matter and materials physics (experimental, theoretical and computational), low temperature physics, elementary particle physics (experimental and theoretical) and biological physics. With such diversity in research offerings you will have an opportunity to pursue research in most areas of contemporary physics. In spite of the size of our Department, we are committed to designing a program of graduate study that is tailored to your experience and interests. Our Graduate Coordinator sees that each of our graduate students receives personal attention and advice as they progress toward their advanced degree.

Graduate Program Overview

Preliminary Examination:

- Covers undergraduate subject matter
- Given twice a year; two years to complete

Graduate Core Courses

- Two semesters of quantum mechanics
- Two semesters of electromagnetism
- One semester of classical mechanics
- One semester of statistical mechanics
- Waivers given for equivalent
- work at other institutions
- Completed in first or second years

Distribution Requirement

- Advanced course work in three subfields
- Usually completed by the end of the second year

Highlights

- Involvement in research in first summer (or sooner)!
- Diversity of research interdisciplinary options!
- Individualized program designed to meet the unique background of each student!

For more information, please see our website: <http://www.physics.ufl.edu>.

Degrees

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

Master of Science

Master of Science in Teaching

Courses

- AST 6416: Physical Cosmology
- PHY 5277: Physics of Accident Reconstruction and Biomechanics
- PHY 5905: Individual Work
- PHY 6246: Classical Mechanics
- PHY 6346: Electromagnetic Theory I
- PHY 6347: Electromagnetic Theory II
- PHY 6536: Statistical Mechanics I
- PHY 6555C: Cryogenics
- PHY 6645: Quantum Mechanics I
- PHY 6646: Quantum Mechanics II
- PHY 6648: Quantum Field Theory I
- PHY 6905: Individual Work
- PHY 6910: Supervised Research
- PHY 6920: Departmental Colloquium
- PHY 6932: Seminar in Molecular and Computational Physics
- PHY 6943: Internship in College Teaching
- PHY 6971: Research for Master's Thesis
- PHY 7097: Advanced Topics in Theoretical Physics
- PHY 7669: Quantum Field Theory II
- PHY 7939: Special Topics
- PHY 7979: Advanced Research
- PHY 7980: Research for Doctoral Dissertation
- PHZ 5155C: Physical Modeling and Simulation
- PHZ 5245: Introduction to Magnetic Resonance
- PHZ 5354: Introduction to Particle Physics
- PHZ 5405: Introduction to Solid-State Physics
- PHZ 6156: Computer Methods in Physics
- PHZ 6166: Qualitative Methods of Theoretical Physics
- PHZ 6355: Elementary Particle Physics I
- PHZ 6358: Standard Model of Elementary Particles I
- PHZ 6391: Seminar in Astrophysics
- PHZ 6392: Seminar in Particle Physics
- PHZ 6426: Solid State I
- PHZ 6493: Seminar in Condensed Matter Physics
- PHZ 6607: Special and General Relativity
- PHZ 7357: Elementary Particle Physics II
- PHZ 7359: Standard Model of Elementary Particles II
- PHZ 7427: Solid State II
- PHZ 7428: Modern Condensed Matter Physics
- PHZ 7429: Phases of Condensed Matter
- PHZ 7608: Special and General Relativity II

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Other

Plant Molecular and Cellular Biology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Plant Molecular and Cellular Biology Department](#)

Plant Molecular and Cellular Biology Program Information

Director: Gloria A. Moore

Graduate Coordinator: Matias Kirst

Plant Molecular and Cellular Biology (PCMB) is an interdisciplinary and interdepartmental graduate degree program that emphasizes understanding the molecular and cellular mechanisms that mediate plant development, adaptation, and evolution. Students can pursue an M.S. or a Ph.D. degree through the PCMB program. All students complete core courses in Advanced Genetics, Plant Molecular Biology and Genomics, Plant Cellular and Developmental Biology, and Plant Biochemistry. In addition to the core classes, students can select from a variety of courses in biochemistry, molecular biology, physiology, breeding, genetics, evolution, microbiology, and plant pathology.

New students are exposed to a variety of faculty and experimental systems while they rotate through several laboratories during their first two semesters before selecting an adviser and dissertation research area. Both M.S. and Ph.D. students take four required courses: [PCB 5065](#) Advanced Genetics, [PCB 5530](#) Plant Molecular Biology and Genomics, [PCB 6528](#) Plant Cell and Developmental Biology and [BOT 6935](#) Plant Biochemistry, as well as journal colloquium classes ([PCB 7922](#) Journal Colloquium). Additional elective courses are taken after approval by the student's supervisory committee. For additional information see <http://pmcb.ifas.ufl.edu>.

Successful candidates should have a strong interest in plant molecular and cellular mechanisms controlling development, metabolism, adaptation, and evolution. Applicants typically have a B.S. or M.S. in the agricultural, forestry, biological or chemical sciences with advanced undergraduate coursework in genetics, molecular and cellular biology, and biochemistry. However, outstanding students from a broad range of science disciplines are actively considered.

Degrees

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Molecular and Cellular Biology Courses

- BOT 6935: Special Topics
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6910: Supervised Research
- PCB 6937: Special Topics in Plant Molecular and Cellular Biology
- PCB 6971: Research for Master's Thesis
- PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

Political Science Department

Chair: Ido Oren

Graduate Coordinator: Daniel Smith

Complete faculty listing: [Follow this link.](#)

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations

program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) or follow the hyperlinks below to more information about the specific programs offered.

Other

Political Science

College

[College of Liberal Arts and Sciences](#)

Department/School

[Political Science Department](#)

Political Science Program Information

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information about international relations, please contact the [Political Science Department](#) or visit [their departmental page in this catalog](#).

Admission to graduate study in the Department of Political Science normally requires the completion of an undergraduate major in political science or its equivalent. Students without this preparation may be required to make up deficiencies early in their graduate work. The core sequence begins in the fall term, providing basic knowledge that students need in later semesters. In evaluating candidates for admission, the Department considers

- Prior academic achievement
- GRE scores
- Letters of recommendation from three faculty members or others familiar with the academic potential or work habits of the applicant
- A statement of purpose that conveys intellectual ambitions, indicates how the program of study satisfies the student's interests and goals, and tells how the student would contribute to the program.

Fields of specialization offered by the Department include American government and politics, comparative politics, international relations, public policy, political theory, political behavior, and political methodology.

Master of Arts: The M.A. curricula are designed to serve students who want to pursue goals of an advanced general education, to gain skills and knowledge suitable for various types of public or private employment, or to prepare for further work at the doctoral level. M.A. students are required to complete [POS 6736: The Conduct of Inquiry](#), and either [POS 6737: Political Data Analysis](#) or [STA 6126: Statistical Methods in Social Research I](#). Students may complete their M.A. degrees with or without writing a thesis. Students pursuing the thesis option must complete 30 hours of graduate course work. The thesis is expected to be of length and quality comparable to papers presented at professional academic conferences or published in academic journals. Students pursuing the nonthesis option must complete 36 semester hours of graduate course work and defend two qualifying papers. For both M.A. options, course work in political science, exclusive of core courses, must include a minimum of two graduate-level courses in one field of political science.

The M.A. degree may be taken in conjunction with the following certificate programs:

- Political campaigning
- Public affairs

Students in these certificate programs pursue the nonthesis option.

Public affairs: This program trains students for leadership positions in state, local, and national governments as well as for careers in nonprofit organizations by providing students with knowledge and skills in the areas of organization behavior, public budgeting and finances, public management, policy analysis, program evaluation, and computer applications. The curriculum consists of seminars in political science, public administration, public policy, process, state and local politics, and research methods. Supervised internships in selected agencies in Florida are arranged by the Department of Political Science as an integral part of the training program. This specialization requires 39 hours of course work plus satisfactory completion of a 3-hour internship at the discretion of the Department. Students must also defend a final management-policy paper that incorporates analytical and substantive expertise. Graduates of the program serve in a variety of professional positions, including city managers, heads of municipal departments, directors of nonprofit organizations, analysts for the state legislature, and budget analysts for the federal government. In addition to the M.A. degree in political science, students receive the Certificate in Public Affairs.

Political campaigning: The program is designed to provide students with the basic political skills, insights, and experience that are critical for success in the rapidly changing profession of politics and political consulting. The program combines an awareness of the academic literature on mass and elite behavior with exposure to the increasingly sophisticated techniques used by campaigns. Students take a total of 39 hours from four major areas:

- Courses required of all M.A. students
- Courses oriented to practical aspects of political campaigning and governmental affairs (lobbying), including a 3-credit campaign-related internship
- Courses placing campaigns and elections in the broader context of American politics
- Related courses offered by the College of Journalism and Communications

Entry-level jobs have included such positions as legislative aide, campaign (or deputy campaign) manager, polling analyst, state party political coordinator, general campaign consultant, and media relations. With additional experience, some former students have gone on to become state legislator (and later, member of the U.S. House of Representatives), deputy chief of staff to the governor of Florida, partner in a major Washington area polling firm, assistant to the Minister of Justice and Attorney General of Canada, and head lobbyist for a nationwide restaurant chain. In addition to the M.A. degree in political science, students receive the Certificate in Political Campaigning.

Law/Public Affairs joint degree program: This program culminates in the Master of Arts in political science and Juris Doctor degrees. A joint degree program culminating in the Master of Arts in political science international relations and Juris Doctor degrees is also available. The joint program enables students to earn both the J.D. and the M.A. in less time than would be required to earn both degrees consecutively. Full-time students who make satisfactory progress can usually earn both degrees in 4 years. Candidates for the joint degree program must meet the entrance requirements for, and be admitted to, both the College of Law and the Department of Political Science. These requirements include both the LSAT and the GRE. Students are encouraged to announce their intent of seeking a joint degree as soon as possible. The Department of Political Science will allow 12 hours of appropriate law school courses to be credited toward the M.A. degree. The 12 credits selected from the law curriculum must be approved by the Political Science graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in political science graduate courses to be credited toward the J.D. degree. Students in the joint degree program are

permitted, but not required, to pursue a companion certificate program in public affairs, political campaigning, or international development policy and administration.

Combined bachelor's/master's degree program: This combined program is designed for superior students who have the ability to pursue an accelerated program leading to the Bachelor of Arts and the Master of Arts degrees in political science or political science international relations.

Up to 12 semester hours of approved graduate-level political science courses may be used as credit for both the undergraduate and graduate degree. Applicants to the program must present

- Acceptable scores on the verbal, quantitative, and analytical writing portions of the GRE
- Completion of at least 24 semester hours at the University of Florida (including at least 12 semester hours of political science) with a GPA of 3.7 or higher
- Letters of recommendation from two faculty members in the Department of Political Science

The combined program is not recommended for students considering a Ph.D. program in political science at UF but is appropriate for those considering one of the M.A. degree plus certificate programs described above. Further information concerning this program is available from the departmental undergraduate and graduate coordinators.

Doctor of Philosophy: The Ph.D. program emphasizes preparation for academic careers through seminars, independent work with faculty, and professional development experiences including graduate paper readings, placement workshops, and a distinguished lecture series. The Ph.D. prepares students for teaching and research in either an academic or governmental environment and opens doors to other career opportunities in both the private and public sectors. The Ph.D. program emphasizes the development of strong analytic skills and sophisticated research methods. As resources permit, the Department provides students with funding for travel expenses to scholarly meetings and professional (methodological) training support. As part of the preparation for careers in academia, doctoral students are also generally expected to contribute to the teaching mission of the Department. All Ph.D. students must complete the following:

- [POS 6736: The Conduct of Inquiry](#)
- [POS 6716: Scope and Epistemologies of Political Science](#)
- [POS 6737: Political Data Analysis](#)
- [POT 6505: Politics and Theory](#)
- Course work in a major and two minor fields of study
- Qualifying examinations in a major field and one minor field
- A dissertation

Fields of study open to Ph.D. students include comparative politics, American politics, public policy, international relations, political behavior, political theory, and political methodology. Applications are particularly welcome from students whose intellectual interests traverse these fields, including those with interests in religion and politics, state political institutions and policy, environmental politics, international development, and minority and ethnic politics.

University of Florida Ph.D. students benefit from associations with faculty in numerous other departments and centers. The Centers for Latin American Studies, African Studies, and European Studies, and the Asian Studies Program complement department faculty strengths in comparative politics and international relations. Students in the public policy concentration benefit from substantive expertise of faculty in the Institute for Child Health Policy, the Shingberg Center for Affordable Housing, and the Center for Gerontological Studies. Several faculty in the College of Journalism and Communications have interests in media and politics.

For more information, please see our website: <http://polisci.ufl.edu>.

Degrees Offered with a Major in Political Science

Doctor of Philosophy

without a concentration

concentration in Educational Policy

concentration in Tropical Conservation and Development

Master of Arts

without a concentration

concentration in International Development Policy and Administration

concentration in Public Affairs

concentration in Political Campaigning

concentration in Tropical Conservation and Development

Political Science Departmental Courses

- CPO 5935: Advanced Topics in Comparative Politics
- CPO 6046: Politics in Advanced Industrial Societies
- CPO 6059: Democracy and Its Competitors
- CPO 6077: Social Movements in Comparative Perspective
- CPO 6091: Introduction to Comparative Political Analysis
- CPO 6206: Seminar in African Politics
- CPO 6307: Latin American Politics I
- CPO 6732: Democratization and Regime Transition
- CPO 6736: Post-Communist politics
- CPO 6756: Comparative Elections and Party Systems
- CPO 6757: The European Union In Comparative Perspective
- CPO 6786: Peasant Politics and Society
- CPO 6795: Environmental Politics
- CPO 6796: Water Politics
- INR 5935: Advanced Topics in International Relations
- INR 6036: Globalization, Regionalism, and Governance
- INR 6039: International Political Economy
- INR 6208: Advanced International Relations Theory
- INR 6213: Seminar: Politics of the European Union
- INR 6249: Inter-American Relations
- INR 6305: Politics of American Foreign Policy Making
- INR 6337: Survey of International Security
- INR 6352: International Environmental Relations
- INR 6507: International Organization
- INR 6607: International Relations Theory
- INR 6936: Seminar in Transnational and Global Studies
- INR 6938: Seminar in Culture and World Politics
- PAD 5935: Advanced Topics in Public Administration
- PAD 6108: Public Administration Theory
- PAD 6227: Public Budgeting and Finance
- PAD 6434: Leadership and Ethics in Public Agencies
- POS 6458: Politics of Campaign Finance
- PAD 6946: Internship in Government
- POS 5935: Advanced Topics in Political Science
- POS 6045: Seminar in American Politics
- POS 6048: American Political Development
- POS 6127: State Government and Politics
- POS 6146: Urban Politics
- POS 6157: Community Analysis
- POS 6196: Patrons, Clients, Corruption, and Accountability
- POS 6207: Political Behavior
- POS 6208: Empirical Political Research
- POS 6272: Political Participation
- POS 6274: Political Campaigning
- POS 6278: Advanced Campaign Strategy
- POS 6279: The Politics of Direct Democracy
- POS 6292: Religion and Politics
- POS 6427: Legislative Process
- POS 6453: Political Parties and Interest Groups
- POS 6476: Bureaucratic Politics in the U.S.
- POS 6707: Qualitative Research Methods for Political Science
- POS 6712: Empirical Theories of Politics
- POS 6716: Scope and Epistemologies of Political Science
- POS 6736: The Conduct of Inquiry
- POS 6737: Political Data Analysis
- POS 6747: Topics in Political Research Methodology
- POS 6757: Survey Research
- POS 6909: Individual Work
- POS 6910: Supervised Research
- POS 6933: Special Topics
- POS 6940: Supervised Teaching
- POS 6971: Research for Master's Thesis
- POS 7979: Advanced Research
- POS 7980: Research for Doctoral Dissertation
- POT 5935: Advanced Topics in Political Theory
- POT 6016: Ancient Political Thought
- POT 6056: Modern Political Thought
- POT 6067: Contemporary Political Theory
- POT 6306: Liberalism and Its Critics
- POT 6314: Democratic Theory
- POT 6416: The Marxist Tradition and its Critics
- POT 6505: Politics and Theory

- POT 6516: Political Judgment
- PUP 5935: Advanced Topics in Public Policy
- PUP 6006: Policy Evaluation
- PUP 6007: Policy Process
- PUP 6009: Public Policy Analysis
- PUP 6315: Race, Gender, and Politics

Political Science - International Relations

College

[College of Liberal Arts and Sciences](#)

Department/School

[Political Science Department](#)

Political Science--International Relations Program Information

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) directly or visit [their departmental catalog page](#).

Admission to graduate study in the Department of Political Science normally requires the completion of an undergraduate major in political science or its equivalent. Students without this preparation may be required to make up deficiencies early in their graduate work. The core sequence begins in the fall term, providing basic knowledge that students need in later semesters. In evaluating candidates for admission, the Department considers

- Prior academic achievement
- GRE scores
- Letters of recommendation from three faculty members or others familiar with the academic potential or work habits of the applicant
- A statement of purpose that conveys intellectual ambitions, indicates how the program of study satisfies the student's interests and goals, and tells how the student would contribute to the program.

Political science--international relations: The M.A. degree in political science-- international relations is designed to provide professional education to those whose primary interest is a career in foreign relations. In this program, students must complete course work in the core of international relations theory and in two or more of the four major subfields of international relations, international political economy, international security, foreign policy, and international organization. The M.A. is a 36-hour degree, requiring successful completion of a 6-credit political science core sequence, 15 credits of departmental or extra-department electives, and a 15- credit international relations major. Students may pursue either a thesis option or take a comprehensive examination at the end of the program.

Law/Public Affairs joint degree program: This program culminates in the Master of Arts in political science and Juris Doctor degrees. A joint degree program culminating in the Master of Arts in political science international relations and Juris Doctor degrees is also available. The joint program enables students to earn both the J.D. and the M.A. in less time than would be required to earn both degrees consecutively. Full-time students who make satisfactory progress can usually earn both degrees in 4 years. Candidates for the joint degree program must meet the entrance requirements for, and be admitted to, both the College of Law and the Department of Political Science. These requirements include both the LSAT and the GRE. Students are encouraged to announce their intent of seeking a joint degree as soon as possible. The Department of Political Science will allow 12 hours of appropriate law school courses to be credited toward the M.A. degree. The 12 credits selected from the law curriculum must be approved by the Political Science graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in political science graduate courses to be credited toward the J.D. degree. Students in the joint degree program are permitted, but not required, to pursue a companion certificate program in public affairs, political campaigning, or international development policy and administration.

Combined bachelor's/master's degree program: This combined program is designed for superior students who have the ability to pursue an accelerated program leading to the Bachelor of Arts and the Master of Arts degrees in political science or political science international relations.

Up to 12 semester hours of approved graduate-level political science courses may be used as credit for both the undergraduate and graduate degree. Applicants to the program must present

- Acceptable scores on the verbal, quantitative, and analytical writing portions of the GRE
- Completion of at least 24 semester hours at the University of Florida (including at least 12 semester hours of political science) with a GPA of 3.7 or higher
- Letters of recommendation from two faculty members in the Department of Political Science

The combined program is not recommended for students considering a Ph.D. program in political science at UF but is appropriate for those considering one of the M.A. degree plus certificate programs described above. Further information concerning this program is available from the departmental undergraduate and graduate coordinators.

Degrees

Master of Arts

Master of Arts in Teaching

Political Science Departmental Courses

- CPO 5935: Advanced Topics in Comparative Politics
- CPO 6046: Politics in Advanced Industrial Societies
- CPO 6059: Democracy and Its Competitors
- CPO 6077: Social Movements in Comparative Perspective
- CPO 6091: Introduction to Comparative Political Analysis
- CPO 6206: Seminar in African Politics
- CPO 6307: Latin American Politics I
- CPO 6732: Democratization and Regime Transition
- CPO 6736: Post-Communist politics
- CPO 6756: Comparative Elections and Party Systems
- CPO 6757: The European Union In Comparative Perspective
- CPO 6786: Peasant Politics and Society
- CPO 6795: Environmental Politics
- CPO 6796: Water Politics
- INR 5935: Advanced Topics in International Relations
- INR 6036: Globalization, Regionalism, and Governance
- INR 6039: International Political Economy
- INR 6208: Advanced International Relations Theory
- INR 6213: Seminar: Politics of the European Union
- INR 6249: Inter-American Relations
- INR 6305: Politics of American Foreign Policy Making
- INR 6337: Survey of International Security
- INR 6352: International Environmental Relations
- INR 6507: International Organization
- INR 6607: International Relations Theory
- INR 6936: Seminar in Transnational and Global Studies
- INR 6938: Seminar in Culture and World Politics
- PAD 5935: Advanced Topics in Public Administration
- PAD 6108: Public Administration Theory
- PAD 6227: Public Budgeting and Finance
- PAD 6434: Leadership and Ethics in Public Agencies
- POS 6458: Politics of Campaign Finance
- PAD 6946: Internship in Government
- POS 5935: Advanced Topics in Political Science
- POS 6045: Seminar in American Politics
- POS 6048: American Political Development
- POS 6127: State Government and Politics
- POS 6146: Urban Politics
- POS 6157: Community Analysis
- POS 6196: Patrons, Clients, Corruption, and Accountability
- POS 6207: Political Behavior
- POS 6208: Empirical Political Research
- POS 6272: Political Participation
- POS 6274: Political Campaigning
- POS 6278: Advanced Campaign Strategy
- POS 6279: The Politics of Direct Democracy
- POS 6292: Religion and Politics
- POS 6427: Legislative Process
- POS 6453: Political Parties and Interest Groups
- POS 6476: Bureaucratic Politics in the U.S.
- POS 6707: Qualitative Research Methods for Political Science
- POS 6712: Empirical Theories of Politics
- POS 6716: Scope and Epistemologies of Political Science
- POS 6736: The Conduct of Inquiry
- POS 6737: Political Data Analysis
- POS 6747: Topics in Political Research Methodology
- POS 6757: Survey Research
- POS 6909: Individual Work
- POS 6910: Supervised Research
- POS 6933: Special Topics
- POS 6940: Supervised Teaching
- POS 6971: Research for Master's Thesis
- POS 7979: Advanced Research
- POS 7980: Research for Doctoral Dissertation
- POT 5935: Advanced Topics in Political Theory
- POT 6016: Ancient Political Thought
- POT 6056: Modern Political Thought
- POT 6067: Contemporary Political Theory
- POT 6306: Liberalism and Its Critics
- POT 6314: Democratic Theory
- POT 6416: The Marxist Tradition and its Critics
- POT 6505: Politics and Theory
- POT 6516: Political Judgment
- PUP 5935: Advanced Topics in Public Policy
- PUP 6006: Policy Evaluation
- PUP 6007: Policy Process

- PUP 6009: Public Policy Analysis
- PUP 6315: Race, Gender, and Politics

Psychology Department

[College of Liberal Arts and Sciences](#)

Chair: Lise Abrams

Graduate Coordinator: Julia A. Graber

Complete faculty listing by department: [Follow this link.](#)

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

For more information, please see the program page below and our website: <http://www.psych.ufl.edu>.

Other

Counseling Psychology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Psychology Department](#)

Degrees Offered with a Major in Counseling Psychology

Doctor of Philosophy

Psychology Departmental Courses

- CBH 6056: Comparative Psychology
- CLP 6169: Seminar: Psychology and Deviant Behavior
- CLP 7525: Best Methods for Studying Psychological Change
- DEP 6057: Advanced Developmental Psychology I
- DEP 6058: Advanced Developmental Psychology II
- DEP 6059: Seminar: Special Topics in Developmental Psychology
- DEP 6099: Survey of Developmental Psychology
- DEP 6216: Psychological Disturbances of Children
- DEP 6406: Advanced Adulthood and Aging
- DEP 6409: Seminar: Adult Development and Aging
- DEP 6799: Current Research Methods in Developmental Psychology
- DEP 6936: Current Research in Developmental Psychology
- DEP 7608: Theories of Developmental Psychology
- EAB 5436: Behavioral Pharmacology
- EAB 6099: Survey of Behavior Analysis
- EAB 6118: Theoretical Foundations of Behavior Analysis
- EAB 6707: Applied Behavior I
- EAB 6712: Experimental Psychopathology
- EAB 6716: Behavior Analysis in Developmental Disabilities
- EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research
- EAB 6750: Quantitative Methods
- EAB 6780: Ethics and Professional Issues
- EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior
- EAB 6939: Seminar: Special Topics in Applied Behavior Analysis
- EAB 7089: Advanced Seminar: Experimental Analysis of Behavior
- EAB 7090: Verbal Behavior
- EXP 6099: Survey of Cognition and Sensory Processes
- EXP 6609: Seminar: Cognition
- EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes

- GEY 7408: Psychotherapy with Older Adults
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 7431: Advanced Family Counseling
- PCO 6057: Psychology of Counseling I
- PCO 6058: Psychology of Counseling II
- PCO 6059: Psychology of Counseling III
- PCO 6278: Diversity and Multiculturalism in Counseling Psychology
- PCO 6316C: Psychological Assessment I
- PCO 6317C: Psychological Assessment II
- PCO 6931: History and Contemporary Issues in Counseling Psychology
- PCO 6939: Seminar: Current Topics in Counseling Psychology
- PCO 7217: Professional Ethics and Skills in Counseling Psychology
- PCO 7247: Group Counseling/Psychology
- PCO 7537: Vocational Psychology
- PCO 7944: Practicum in Counseling Psychology
- PCO 7945: Advanced Practicum in Counseling Psychology
- PCO 7949: Internship in Counseling Psychology
- PPE 6059: Seminar in Personality
- PSB 5445: Drug Use and Abuse
- PSB 5935: Seminar in Physiological Psychology
- PSB 6082: Neuroethology
- PSB 6087: Advanced Physiological Psychology
- PSB 6088L: Behavioral Neurobiology
- PSB 6099: Survey of Physiological and Comparative Psychology
- PSB 7248: Neurobehavioral Relations
- PSB 7249: Seminar in Neural Mechanisms and Behavior
- PSY 6608: History of Psychology
- PSY 6905: Individual Work
- PSY 6910: Supervised Research
- PSY 6930: Topics in Psychology
- PSY 6939: Seminar: The Teaching of Psychology
- PSY 6940: Supervised Teaching
- PSY 6971: Research for Master's Thesis
- PSY 7979: Advanced Research
- PSY 7980: Research for Doctoral Dissertation
- SOP 6099: Survey of Social Psychology
- SOP 6219C: Advanced Research Techniques in Social-Personality Psychology
- SOP 6409: Seminar: Current Topics in Social-Personality Psychology
- SOP 6419: Seminar: Attitudes and Social Cognition
- SOP 6509: Seminar: Interpersonal Relations and Group Processes
- SOP 6929: Colloquium on Research in Social-Personality Psychology

Psychology (Psychology - CLAS)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Psychology Department](#)

Psychology Program Information

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

Doctoral areas of specialization include the research areas of developmental, behavior analysis, behavioral and cognitive neuroscience, social psychology, and counseling psychology. The training program in counseling psychology is accredited by the American Psychological Association. A predoctoral internship of one year is required for the counseling psychology program.

Undergraduate preparation should include at least one course in experimental methods and one course in statistics. Other courses in psychology should include at least three or four of the following: cognition, developmental, learning, personality, physiological, sensory, and social. Applicants should have competitive GRE scores and GPA (3.5 or higher).

Co-major: The Department offers a co-major program in conjunction with the College of Education leading to the Doctor of Philosophy degree in psychology and research and evaluation methodology.

Degrees

Doctor of Philosophy

without a concentration

concentration in Women's/Gender Studies

Master of Arts

Master of Science

without a concentration

Psychology Departmental Courses

- CBH 6056: Comparative Psychology
- CLP 6169: Seminar: Psychology and Deviant Behavior
- CLP 7525: Best Methods for Studying Psychological Change
- DEP 6057: Advanced Developmental Psychology I
- DEP 6058: Advanced Developmental Psychology II
- DEP 6059: Seminar: Special Topics in Developmental Psychology
- DEP 6099: Survey of Developmental Psychology
- DEP 6216: Psychological Disturbances of Children
- DEP 6406: Advanced Adulthood and Aging
- DEP 6409: Seminar: Adult Development and Aging
- DEP 6799: Current Research Methods in Developmental Psychology
- DEP 6936: Current Research in Developmental Psychology
- DEP 7608: Theories of Developmental Psychology
- EAB 5436: Behavioral Pharmacology
- EAB 6099: Survey of Behavior Analysis
- EAB 6118: Theoretical Foundations of Behavior Analysis
- EAB 6707: Applied Behavior I
- EAB 6712: Experimental Psychopathology
- EAB 6716: Behavior Analysis in Developmental Disabilities
- EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research
- EAB 6750: Quantitative Methods
- EAB 6780: Ethics and Professional Issues
- EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior
- EAB 6939: Seminar: Special Topics in Applied Behavior Analysis
- EAB 7089: Advanced Seminar: Experimental Analysis of Behavior
- EAB 7090: Verbal Behavior
- EXP 6099: Survey of Cognition and Sensory Processes
- EXP 6609: Seminar: Cognition
- EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes
- GEY 7408: Psychotherapy with Older Adults
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 7431: Advanced Family Counseling
- PCO 6057: Psychology of Counseling I
- PCO 6058: Psychology of Counseling II
- PCO 6059: Psychology of Counseling III
- PCO 6278: Diversity and Multiculturalism in Counseling Psychology
- PCO 6316C: Psychological Assessment I
- PCO 6317C: Psychological Assessment II
- PCO 6931: History and Contemporary Issues in Counseling Psychology
- PCO 6939: Seminar: Current Topics in Counseling Psychology
- PCO 7217: Professional Ethics and Skills in Counseling Psychology
- PCO 7247: Group Counseling/Psychology
- PCO 7537: Vocational Psychology

- PCO 7944: Practicum in Counseling Psychology
- PCO 7945: Advanced Practicum in Counseling Psychology
- PCO 7949: Internship in Counseling Psychology
- PPE 6059: Seminar in Personality
- PSB 5445: Drug Use and Abuse
- PSB 5935: Seminar in Physiological Psychology
- PSB 6082: Neuroethology
- PSB 6087: Advanced Physiological Psychology
- PSB 6088L: Behavioral Neurobiology
- PSB 6099: Survey of Physiological and Comparative Psychology
- PSB 7248: Neurobehavioral Relations
- PSB 7249: Seminar in Neural Mechanisms and Behavior
- PSY 6608: History of Psychology
- PSY 6905: Individual Work
- PSY 6910: Supervised Research
- PSY 6930: Topics in Psychology
- PSY 6939: Seminar: The Teaching of Psychology
- PSY 6940: Supervised Teaching
- PSY 6971: Research for Master's Thesis
- PSY 7979: Advanced Research
- PSY 7980: Research for Doctoral Dissertation
- SOP 6099: Survey of Social Psychology
- SOP 6219C: Advanced Research Techniques in Social-Personality Psychology
- SOP 6409: Seminar: Current Topics in Social-Personality Psychology
- SOP 6419: Seminar: Attitudes and Social Cognition
- SOP 6509: Seminar: Interpersonal Relations and Group Processes
- SOP 6929: Colloquium on Research in Social-Personality Psychology

Religion Department

Chair: Manuel A. Vasquez.

Graduate Coordinator: David G. Hackett

Complete faculty listing by department: [Follow this link.](#)

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the *General Information* section of this catalog

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://religion.ufl.edu/graduate-studies/> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 15 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate

course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://religion.ufl.edu/graduate-studies/>.

Other

Religion

College

[College of Liberal Arts and Sciences](#)

Department/School

[Religion Department](#)

Religion Program

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://www.religion.ufl.edu> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
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Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 12 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://www.religion.ufl.edu>.

Degrees Offered with a Major in Religion

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Jewish Studies

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Courses

- REL 5***
- RLG 5143: Religion and Social Change
 - REL 5187
- RLG 5195: Topics in Religion and Society
 - REL 5199
- RLG 5297: Topics in Biblical Studies
- RLG 5338: Topics in Asian Religions
- RLG 5365: Studies in Islam
- RLG 5396: Religion and Animals
- RLG 5495: Topics in Religious Thought
- RLG 5549: Studies in Christianity
- RLG 5696: Topics in Jewish Thought
- RLG 5906: Individual Work
- RLG 5937: Topics in Religious Studies
 - REL 5xxxA
 - REL 5xxxB
 - REL 5xxxC
 - REL 6***
- RLG 6035: Method and Theory I
- RLG 6036: Method and Theory II
- RLG 6095: Utopias and Dystopias
- RLG 6107: Core Seminar in Religion and Nature
- RLG 6125: Religion and Politics in the Americas
- RLG 6129: Hindu Traditions in America
- RLG 6137: Religion in North America
- RLG 6138: New Religious Movements
- RLG 6126: Religion in the Americas
- RLG 6167: Radical Environmentalism
- RLG 6181: Ethics and the Natural Sciences
- RLG 6183: Religion and Environmental Ethics
- RLG 6187: Nature in Asian Religions
- RLG 6196: Globalizing the Sacred
- RLG 6319: Interpreting Asian Religions
- RLG 6339: Women in the Hindu Tradition
- RLG 6346: Buddhist Traditions
- REL 6347: American Buddhism
- REL 6368: Islam in Asia
- RLG 6310: Religion and Nature in South Asia
- RLG 6385: Native Religions in the Americas
- RLG 6387: Religions in Latin America
- REL 6397: Hindu Sacred Texts and Their Ritual Context
- RLG 6910: Supervised Research
- RLG 6940: Supervised Teaching
- RLG 6957: Overseas Studies in Religion
- RLG 6971: Research for Master's Thesis
 - REL 6xxxA
 - REL 6xxxB
- RLG 7979: Advanced Research
- RLG 7980: Research for Doctoral Dissertation
- SRK 6905: Individual Study in Sanskrit

Spanish and Portuguese Studies Department

Chair: G. Lord

Graduate Coordinator: L. Álvarez Castro

Complete faculty listing by department: [Follow this link.](#)

The Department of Spanish and Portuguese Studies offers a Master of Arts degree (M.A.) in Spanish (thesis and non-thesis options) and a Doctor of Philosophy degree (Ph.D.) in Romance Languages and Literatures, with a concentration in Spanish. Descriptions of the minimum requirements for both degrees are provided in the General Information section of this catalog. For specific information about the program, please visit the graduate section of the departmental webpage:

<http://www.spanishandportuguese.ufl.edu/spanish/graduate.html>

Candidates for graduate degrees (both M.A. and Ph.D.) in Spanish can choose between two specializations—literature/culture or linguistics. In conjunction with their master's or doctoral work, students may also earn a Certificate in Latin American Studies. Though a graduate degree is not offered in Portuguese, extensive course offerings at the graduate level permit students to develop a strong specialization in Portuguese language and Luso-Brazilian literature, film and culture.

The main prerequisite for admission to the M.A. program is an undergraduate major in Spanish, ideally including advanced courses in the proposed area of specialization. Applicants for the Ph.D. should hold an M.A. or equivalent degree in Spanish. At the discretion of the Graduate Studies Committee, candidates from related fields of study (History, Sociology...) may be offered a conditional admission into the Ph.D. program pending the passing of the M.A. Comprehensive Examination within the first year of study.

All M.A. and Ph.D. students in Spanish who are appointed as teaching assistants must take Romance Language Teaching Methods (FOL / [FOL 6943](#)). Besides, all M.A. and Ph.D. students specializing in literature and culture must take Introduction to Graduate Study and Research ([SPW 6806](#)). Other requirements vary with degree and specialization. For details, consult the graduate section of the departmental webpage (see above).

The Department is able to offer most students a teaching assistantship that provides a maintenance stipend and includes a tuition waiver. Contingent on positive performance in teaching and graduate work, M.A. students are guaranteed four semesters of support, and Ph.D. students are guaranteed eight semesters of support beyond the M.A. In addition, there are several fellowships, supplements and stipends for which students may apply, and summer teaching may be available.

Prospective students are encouraged to review the departmental webpage in order to familiarize themselves with the program and the application process. Only those applications including all required materials and submitted by the advertised deadlines will be considered. For any questions about the program or how to apply, please contact the graduate coordinator:

jacastro@ufl.edu.

Highly qualified UF undergraduate students majoring in Spanish may apply for a combined B.A./M.A. program in Spanish that allows up to 12 graduate credits to be counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details.

Other

Romance Languages (Spanish and Portuguese Studies)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Spanish and Portuguese Studies Department](#)

Degrees Offered with a Major in Romance Languages

Doctor of Philosophy

concentration in Spanish

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research

- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Spanish

College

[College of Liberal Arts and Sciences](#)

Department/School

[Spanish and Portuguese Studies Department](#)

Degrees

Master of Arts

Master of Arts in Teaching

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Statistics Department

Chair: M. J. Daniels
Graduate Coordinator: J. P. Hobert

Complete faculty listing: [Follow this link.](#)

Graduate programs are available leading to Master of Science in Statistics, Master of Statistics, and Doctor of Philosophy degrees. Minimum requirements for these degrees are described in the *General Information* section of this catalog.

Both master's programs usually require 2 years of course work including material covered in [STA 6208](#), 6208, [STA 6326](#), [STA 6327](#), [STA 6246](#), and [STA 6329](#). In addition to earning a "Ph.D. pass" on the first-year evaluation, requirements for the Ph.D. degree include STA 6466, 6467, [STA 7249](#), and [STA 7346](#).

Interdisciplinary programs: The Department offers a co-major program in conjunction with the Fisher School of Accounting leading to the Doctor of Philosophy degree in statistics and business administration accounting. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Departments of Mathematics; Industrial and Systems Engineering; and Finance, Insurance, and Real Estate. For information on these programs, consult the departmental graduate coordinator.

Combined program: The Department offers a bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Statistics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Statistics Department](#)

Degrees Offered with a Major in Statistics

Doctor of Philosophy

without a concentration

concentration in Quantitative Finance

Master of Science in Statistics

Master of Statistics

Statistics Departmental Courses

- STA 5106: Computer Programs in Statistical Analysis
- STA 5223: Applied Sample Survey Methods
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 5503: Categorical Data Methods
- STA 5507: Applied Nonparametric Methods

- STA5701: Applied Multivariate Methods
- STA5715: Applied Survival Analysis
- STA5823: Stochastic Process Methods
- STA5856: Applied Time Series Methods
- STA6092: Applied Statistical Practice
- STA6126: Statistical Methods in Social Research I
- STA6127: Statistical Methods in Social Research II
- STA6166: Statistical Methods in Research I
- STA6167: Statistical Methods in Research II
- STA6177: Applied Survival Analysis
- STA6178: Genetic Data Analysis
- STA6207: Regression Analysis
- STA6208: Basic Design and Analysis of Experiments
- STA6209: Design and Analysis of Experiments
- STA6226: Sampling Theory and Application
- STA6246: Theory of Linear Models
- STA6326: Introduction to Theoretical Statistics I
- STA6327: Introduction to Theoretical Statistics II
- STA6329: Matrix Algebra and Statistical Computing
- STA6505: Analysis of Categorical Data
- STA6526: Nonparametric Statistics
- STA6707: Analysis of Multivariate Data
- STA6826: Stochastic Processes
- STA6857: Time Series Analysis
- STA6866: Monte Carlo Statistical Methods
- STA6905: Individual Work
- STA6910: Supervised Research
- STA6934: Special Topics in Statistics
- STA6938: Seminar
- STA6940: Supervised Teaching
- STA6942: Internship
- STA6971: Research for Master's Thesis
- STA7179: Survival Analysis
- STA7249: Generalized Linear Models
- STA7334: Limit Theory
- STA7346: Statistical Inference
- STA7347: Advanced Inference
- STA7348: Bayesian Theory
- STA7466: Probability Theory I
- STA7467: Probability Theory II
- STA7527: Theory of Nonparametric Statistics
- STA7828: Topics in Stochastic Processes
- STA7934: Special Topics in Statistics
- STA7979: Advanced Research
- STA7980: Research for Doctoral Dissertation

Women's Studies Department

Director: Bonnie Moradi

Graduate Coordinator: Kendal Broad

Complete faculty listing by department: [Follow this link.](#)

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as a two certificates. These options give students the opportunity to take advantage of scholarship in this dynamic field, and to become acquainted with different research perspectives and methodologies. Students become well grounded in theories of gender in cultural systems and in ways that gender intersects with other categories of difference such as race, ethnicity, religion, class, sexuality, nation, physical and mental ability, age, and economic and civil status. Faculty and students employ feminist and other appropriate theoretical approaches and methodologies.

The Center offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring. The Center in Ustler Hall houses archives, a small library, offices, and meeting space.

For more information about our program, please see the program page below or our website: <http://web.wst.ufl.edu>.

Other

Women's Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Women's Studies Department](#)

Women's Studies Program Information

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as a two certificates. The Center also offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring.

Master of Arts (thesis and non-thesis): The Center offers the Master of Arts (M.A.) thesis degree option, which requires the completion and defense of a thesis (30 credit hours), and the Master of Arts non-thesis degree option, which requires completion and defense of a project or paper (30 credit hours). All Master's students take a core curriculum of 9 graduate credits (3 courses). For the thesis M.A., the remaining 21 hours consist of 15 credits of approved electives and 6 thesis credits. For the non-thesis M.A., 21 credits of approved electives are required.

Required courses for all MA students (9 credits):

- [WST 5933: Proseminar in Women's Studies](#)
- [WST 6508: Advanced Feminist Theory](#)
- [WST 6935: Special Topics in Women's Studies](#)

Thesis

15 approved credits at 5000-level or higher

6 credits of [WST 6971: Research for Master's Thesis](#)

(3 of which must be taken in the final graduating term)

Total for MA thesis: 30 credits

Non-thesis

21 approved credits at 5000-level or higher;

at least 6 of these credits must be classes in WST.

Total for MA non-thesis: 30 credits

BA/ MA Program: UF offers a number of Bachelor's/Master's programs for superior students. The university created combined degree programs to provide academically talented students an opportunity to complete both a bachelor's and a master's degree in a shorter period of time. The program allows you to double-count graduate courses toward both degrees, thus reducing the time it would normally take to graduate by a semester or more. The combined-degree program reduces the cost of both degrees and enhances your marketability for career advancement.

Concurrent degree -MA in Women's Studies and an MA in Mass Communications (MAMC) with specialization in Journalism: When appropriate, the Center for Women's Studies and Gender Research will work with individual students to develop a collaborative degree program with the College of Journalism and Communication. At the University of Florida, students may apply to complete Master's degrees in two different programs or two Master's degrees in the same program concurrently. Those interested should discuss the proposed study with the office of Graduate Student Records (392-4643, 106 Grinter) before applying. Written approval is needed from each academic unit and the Graduate School Dean. The student must be officially admitted to both programs through regular procedures. No more than 9 credits from the first program may be applied toward the second.

MA/J.D. Joint Degree: The faculties of the Levin College of Law and Women's Studies in the College of Liberal Arts and Sciences have approved a joint degree program culminating in both a J.D. degree, awarded by the College of Law, and an M.A. degree (thesis or non-thesis), awarded by the College of Liberal Arts and Sciences. Under this joint degree program, a student can obtain both degrees in approximately one year less than it would take to obtain both degrees if pursued consecutively. A student must satisfy the curriculum requirements for each degree before either degree is awarded. At least 12 credits must be taken in each program. The graduate program in Women's Studies will accept 12 credits of appropriate professional courses toward the M.A. degree. The 12 credits selected from the professional curriculum must be approved by the Graduate Coordinator upon the recommendation of the student's graduate supervisory committee. Reciprocally, the law school will accept 12 credits of appropriate Women's Studies courses toward the satisfaction of the J.D. degree. Admission to the second program is required no later than the end of the third consecutive semester after beginning one degree of the joint degree program. A summer term is counted as a single semester.

Certificates (MA or Ph.D. level): Two graduate certificates in Women's Studies for master's and doctoral students are offered in conjunction with degree programs in other academic units. The Graduate Certificate in Women's Studies and the Graduate Certificate in Gender and Development require specific sets of course work, designed to give students a thorough grounding in the discipline. The Graduate Certificate in Women's Studies offers students a general overview of the field. The Graduate Certificate in Gender and Development allows students to focus on issues related to gender, economic development, and globalization.

Graduate courses in women's studies are also available from the following academic units or programs:

- Agricultural and Life Sciences
- Anthropology
- Counselor Education
- English
- History
- Journalism and Communication
- Languages, Literatures, and Cultures
- Latin American Studies
- Linguistics
- Medicine
- Philosophy
- Psychology
- Religion
- Sociology
- Teaching and Learning

For more information, please see our website: <http://web.wst.ufl.edu>.

Degrees Offered with a Major in Women's Studies

Master of Arts

Courses

- WST 5933: Proseminar in Women's Studies
- WST 6348: Ecofeminism
- WST 6508: Advanced Feminist Theory
- WST 6905: Independent Study
- WST 6935: Special Topics in Women's Studies
- WST 6936: Feminist Challenges to Disciplinary Paradigms
- WST 6946: Internship in Applied Women's Studies and Gender Research
- WST 6957: International Studies in Women's Studies and Gender Research
- WST 6971: Research for Master's Thesis

Biochemistry and Molecular Biology Department

Chair: James B. Flanagan.

Graduate Coordinator: Kevin Brown

Complete faculty listing by department: [Follow this link.](#)

Biochemistry and Molecular Biology Department faculty mentor Ph.D. students in the College of Medicine interdisciplinary program (IDP) in medical sciences. Students interested in pursuing a doctoral degree can view specific features of the biochemistry and molecular biology concentration at <http://biochem.med.ufl.edu/> and <http://idp.med.ufl.edu>. For admission information, visit the IDP website. Department faculty also mentor Ph.D. students in other college programs and participate actively in the research and teaching functions of various centers such as the Center for Epigenetics and the Center for Structural Biology. The Department offers a wide variety of courses for graduate students studying in the life sciences. The research expertise of the faculty spans the areas from cell biology, metabolism, and molecular biology to physical biochemistry/structural biology. Current research interests include viral protease inhibitors, viral RNA replication, bioenergetics and proton translocation, X-chromosome structure and function, cytoskeletal assembly and dynamics, enzyme mechanism and control, chromatin structure, gene expression and regulation, mitochondrial biogenesis and evolution, the genetics of inherited disease, nutrient membrane transporters, protein site-directed mutagenesis, ribosome structure and function, signal transduction, structural biology and dynamics of macromolecules, protein-nucleic acid interactions, transgenic animal models, and virus crystal structure. Prospective graduate students should have adequate training in chemistry and biology. Minor deficiencies may be made up immediately after entering graduate school. Previous undergraduate experience in a research laboratory is highly recommended. Doctoral students are required to take a core IDP course in fall term of their first year; and beginning in spring term, students take advanced classes in areas of interest. Specific advanced-level courses may be recommended by the student's supervisory chair and committee. The following courses are open to all graduate students and advanced undergraduates. Additional courses are listed in the Advanced Concentration in Biochemistry and Molecular Biology section under Medical Sciences.

Other

Biochemistry and Molecular Biology

College

[College of Medicine](#)

Department/School

[Biochemistry and Molecular Biology Department](#)

Degrees Offered with a Major in Biochemistry and Molecular Biology

Master of Science

Courses

- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6040: Research Discussion in Biochemistry and Molecular Biology
- BCH 6107: Biophysical Techniques in Proteomics and Protein Science
- BCH 6206: Advanced Metabolism
- BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control
- BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism
- BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism

- BCH 6415: Advanced Molecular and Cell Biology
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems
- BCH 6744: Molecular Structure Determination by X-ray Crystallography
- BCH 6744L: Molecular Structure Determination by X-Ray Crystallography Laboratory
- BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy
- BCH 6745L: Molecular Structure and Dynamics by NMR Spectroscopy Laboratory
- BCH 6746: Structural Biology: Macromolecular Structure Determination
- BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics
- BCH 6749C: Numerical Methods in Structural Biology
- BCH 6876: Recent Advances in Membrane Biology
- BCH 6875: Crystallography and Cryo-Electron Microscopy
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- BCH 6905: Independent Studies in Biochemistry and Molecular Biology
- BCH 6910: Supervised Research
- BCH 6936: Biochemistry Seminar
- BCH 6971: Research for Master's Thesis
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- BCH 7414: Advanced Chromatin Structure
- BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics
- BCH 7979: Advanced Research
- BCH 7980: BioChem Doctoral Research

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences

- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylogenetics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques

- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: P. Qiu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/curriculum-overview/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/ms-curriculum-overview/>.

Other

Biostatistics (Medicine)

College

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Department

[Biostatistics Department](#)

Degrees

Doctor of Philosophy

Master of Science

Biostatistics Departmental Courses

- GMS 6818: Design and Conduct Clinical Trials I
- GMS 6819: Design and Conduct Clinical Trials II
- GMS 6827: Advanced Clinical Trial Methods
- GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6020: Clinical Trial Methods
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6050C: Biostatistical Methods I
- PHC 6051: Biostatistical Methods II
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
- PHC 6080: SAS for Public Health - Data
- PHC 6081: SAS for Public Health - Analysis
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6937: Special Topics in Public Health
- PHC 6946: Public Health Internship
- PHC 7013: Bias in Observational Research
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7925: Biostatistics Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- STA 5223: Applied Sample Survey Methods
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 5503: Categorical Data Methods
- STA 5701: Applied Multivariate Methods
- STA 5715: Applied Survival Analysis
- STA 6092: Applied Statistical Practice
- STA 6166: Statistical Methods in Research I
- STA 7249: Generalized Linear Models
- STA 7346: Statistical Inference

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics

- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III

- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

Other

Epidemiology (Medicine)

College

[College of Medicine](#)

Department

[Epidemiology Department](#)

Epidemiology Program Information

The **Ph.D. in Epidemiology** program is in the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The program requires a minimum of 90 semester credits beyond the bachelor's degree. All students must complete a minimum of 9 credits in Epidemiology foundation course work, at least 36 credits of epidemiology core courses, 6 credits of statistics electives, 18 credits of epidemiology electives, 15 credits of general electives, and 12 credits of dissertation research. Students must also complete at least two mentored teaching experiences. All entering students who do not hold MPH or equivalent degrees are also required by the College of Public Health and Health Professions to complete an Introduction to Public Health course.

Students in the Ph.D. program in Epidemiology are admitted to work with a research mentor on that mentor's project, and that research mentor funds the student. Other funding sources are available such as the Graduate School and the Department.

The core course work is designed to incorporate competencies recommended in the report of the 2002 workshop on doctoral education in epidemiology from the American College of Epidemiology and the Association of Schools and Programs of Public Health, and criteria for applied epidemiology competencies. The overall outcomes expected of all graduates are as follows:

1. Apply epidemiological methods to address critical and/or emerging public health issues through the use of:
 - Appropriate epidemiological research designs
 - Advanced statistical analysis methods for health studies
 - Data structures and measurement methods for health research
 - Biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being
 - Depth of knowledge in an area of specialization
2. Assimilate the history, philosophy, and ethical principles of epidemiology into current research
3. Develop grant proposals and manage research projects
4. Write scientific papers for publication in peer-reviewed journals, and communicate research results to scientists, policy makers, and the public
5. Compete successfully for research and teaching positions in academic institutions, federal or state agencies, or private institutions.

Details of the Ph.D. in Epidemiology program and application information are available at our website: <http://epidemiology.phhp.ufl.edu/about/ph-d-in-epidemiology-2>.

The **Master of Science in Epidemiology** degree is offered by the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The 36 credit program prepares students for careers in the public health arena that are focused on the surveillance and prevention of illnesses among diverse populations around the world. Students are trained in the foundational aspects of epidemiology including person, place and time, risk and protective factors, and the social determinants of health. Areas of focus include: chronic disease, infectious disease, geriatric, environmental, psychiatric, social, cancer and maternal and child health epidemiology.

Graduates of the M.S. in Epidemiology program are trained to:

- Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to areas of interest,
- Choose appropriate measurement and analytic methods to study health and disease in a population,
- Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health.

The program consists of required coursework and the successful completion of a thesis. The thesis is required to demonstrate skill in independent inquiry and investigation, under the tutelage of a mentor. Students may complete the course in three semesters with 36 credits.

More program information, including specific course requirements and elective options, is described at the program website: <http://epidemiology.phhp.ufl.edu/about/masters-of-science-in-epidemiology/mse-curriculum-2>.

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Science

Epidemiology (PHHP/COM) Departmental Courses

- GMS 6820: Advanced Epidemiology Methods
- PHC 6008: Cardiovascular Epidemiology
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6034: Epidemic Investigation
- PHC 6070: Epidemiology of Aging
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7007: Cancer Epidemiology
- PHC 7038: Psychiatric Epidemiology
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7427: Ethics in Population Science
- PHC 7727: Grant Writing for Population Health Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7902: Epidemiology Supervised Research Writing Circle
- PHC 7910: International Field Epidemiology
- PHC 7916: National Field Epidemiology
- PHC 7934: Seminar I: Epidemiology Past, Present, and Future
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology

- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology

- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Health Outcomes and Policy Department

[College of Medicine](#)

Chair: Betsy Shenkman

Graduate Coordinator: Jill Herndon

Complete faculty listing by department: [Follow this link.](#)

Students can pursue either a Master of Science degree or a Graduate Certificate.

There is increasing emphasis on assessing health outcomes throughout the lifespan in a variety of health care and community settings. Nationally, the National Institute of Health and other federal and state agencies focus on the development of evidence-based programs to promote health, improve health care delivery, and enhance health outcomes.

Outcomes research generates evidence that informs health care program design in clinical and community settings, the promotion of effective clinical and community interventions, quality of care, cost-effective and clinically appropriate choices for patients in allocation of health care resources (clinical effectiveness), and incorporation of best practice models into health-related programs and policies. Outcomes research also provides mechanisms to understand how to translate research into practice and policy, how to improve the quality and efficiency of health programs, and how to achieve equitable and appropriate delivery of health programs and clinical care, particularly for underserved and vulnerable populations.

Our graduate programs are designed to train professionals in the health care and health research fields about the science that supports the development and evaluation of evidence-based clinical and community-based programs focused on improving health outcomes. Further, our programs emphasize methods for translating research into practice and policy. The unique combination of courses offered through these graduate programs will give trainees the tools needed to examine health outcomes and policies in a variety of settings across different age spans and to examine the individual, social, health system, and health policy factors that influence health outcomes.

In addition to traditional graduate students, both programs are available to medical students, post-doctoral students, fellows, residents, Ph.D. students, and junior faculty.

Molecular Genetics and Microbiology Department

Chair: H. V. Baker.

Graduate Coordinator: A. S. Lewin.

Complete faculty listing by department: [Follow this link.](#)

The Graduate Faculty of the Department of Molecular Genetics and Microbiology participate in the interdisciplinary program (IDP) in medical sciences, leading to the Doctor of Philosophy degree, with specialization in one of the six advanced concentration areas of the IDP (see *Medical Sciences*). Departmental areas of research associated with the IDP focus on topical problems in molecular genetics, viral genetics, and viral and bacterial pathogenesis. Faculty in the Department of Molecular Genetics and Microbiology also participate in the M.S. programs (see *Medical Sciences*). In addition to courses associated with the IDP, the Department of Molecular Genetics and Microbiology maintains the courses listed below.

Biotechnology: This Master of Science program is for students seeking careers in the biomedical industry as research or managerial associates; students seeking careers as teachers or educators at any level, but primarily high school or junior college; or students seeking an in-depth understanding of modern biology and scientific research as an end in itself or in preparation for further graduate study. The foundation of the M.S. program is a basic understanding of molecular and cell biology and the performance of a high-quality research project, culminating in a thesis, under the direction of a skilled mentor, with supervision by a committee composed of members of the Graduate Faculty. Specialization may be in any of the fields of research being pursued at the College of Medicine including but not limited to molecular genetics, gene therapy, bacterial or viral pathogenesis, protein structure, toxicology, mammalian genetics, wound healing, and congenital eye diseases.

For more information contact the Master's Program Coordinator, Molecular Genetics and Microbiology, P.O. Box 100266, College of Medicine, Gainesville, FL 32610, Telephone (352)392-3314.

Other

Molecular Genetics and Microbiology

College

[College of Medicine](#)

Department/School

[Molecular Genetics and Microbiology Department](#)

Courses

- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6169: Antimicrobial Strategies
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6251: Molecular Therapy I – Vectors and Molecular Mechanisms
- GMS 6252: Molecular Therapy II – Disease Targets and Applications
- GMS 6253: Molecular Therapy III – Immunology of Gene Transfer
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6338: Recent Advances in Cancer Metastasis
- GMS 6506: Biologic Drug Development
- GMS 6920: Genetics Journal Colloquy
- GMS 6921: Immunology/Microbiology Journal Colloquy
- GMS 6943: Master's Translational Biotechnology Internship
- GMS 7093: Introduction to Clinical and Translational Research
- GMS 7191: Research Conference
- GMS 7192: Journal Colloquy
- GMS 7194: Biotechnology Seminar
- PCB 5235L: Experiments in Immunology

Degrees

Doctor of Philosophy - Mammalian Genetics

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development

- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
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- GMS 6063: Mechanisms of Aging
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- GMS 6065: Fundamentals of Cancer Biology
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- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology

- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Medicinal Chemistry Department

[College of Pharmacy](#)

Chair: M. O. James.

Graduate Coordinator: H. Luesch

Complete faculty listing by department: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy degree in pharmaceutical sciences with a concentration in medicinal chemistry. Medicinal chemistry is a unique blend of the physical and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active research include organic synthesis of medicinal agents, metal chelate design, prodrugs and topical drug delivery, drug metabolism, molecular toxicology, molecular biology, combinatorial chemistry, neurochemistry, analytical chemistry, molecular modeling, natural products, and drug discovery.

The applicant should have an undergraduate degree in pharmacy, chemistry, biology, or premedical sciences. A background in calculus and physical and organic chemistry is required. In addition to graduate medicinal chemistry courses in the College of Pharmacy, graduate courses in chemistry and biochemistry are required for the program.

The College also offers the Master of Science in Pharmacy degree in pharmaceutical sciences (nonthesis option) with concentrations in both forensic drug chemistry and forensic serology and DNA in a distance learning format. Minimum requirements for the M.S.P. and Ph.D. degrees are described in the *General Information* section of this catalog.

The Department participates in the interdisciplinary concentration in toxicology. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Other

Pharmaceutical Sciences (Medicinal Chemistry)

College

[College of Pharmacy](#)

Department/School

[Medicinal Chemistry Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Medicinal Chemistry

optional second concentration in Clinical and Translational Science

concentration in Toxicology

Master of Science in Pharmacy

concentration in Pharmaceutical Chemistry

concentration in Medicinal Chemistry

concentration in Forensic Serology and DNA

concentration in Forensic Science

concentration in Forensic Drug Chemistry

concentration in Clinical Toxicology

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics

- PHA6899: Advanced OB/GYN and Pediatric Pharmacoeconomics
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmaceutics Department

Chair: H. C. Derendorf.

Graduate Coordinator: A. Palmieri III.

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmaceutics offers the Doctor of Philosophy in pharmaceutical sciences. Pharmaceutics is the scientific endeavor concerned with the design, formulation, evaluation, and

use of drug delivery systems. A foundation in physical chemistry, chemistry, mathematics, and in the life sciences, is necessary. Its domain extends from studies of the physiochemical properties of drugs and related molecules to investigations of the mechanisms of physiological processes affecting drug delivery and therapeutic effectiveness. The Department's general focus involves studying the design and evaluation of traditional and novel dosage forms for delivering drug molecules and macromolecules. The design involves physical chemical studies and development of analytical techniques involving spectroscopy and chromatography. Evaluation includes development of sensitive analytical techniques for the drug in biological fluids and subsequent biopharmaceutical and clinical pharmacokinetic studies.

Other

Pharmaceutical Sciences (Pharmaceutics)

College

[College of Pharmacy](#)

Department/School

[Pharmaceutics Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Pharmacy

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

without a concentration

concentration in Pharmacy

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery

- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
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- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology 1
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
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- PHA6278: State Regulation of Drugs and Pharmacy
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- PHA6286: Pharmaceutical Microeconomics

- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
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- PHA6290: Pharmaceutical Fraud and Abuse
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- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
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- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmacodynamics Department

Chair: M. Keller-Wood.

Interim Graduate Coordinator: Joanna Peris

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see *Interdisciplinary Graduate Studies* in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

Other

Pharmaceutical Sciences (Pharmacodynamics)

College

[College of Pharmacy](#)

Department/School

[Pharmacodynamics Department](#)

Pharmacodynamics Programs

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see Interdisciplinary Graduate Studies in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Pharmacodynamics

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

concentration in Pharmacodynamics

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I

- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development

- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
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- PHA6633: Medication Therapy Management: A Cardiovascular Focus
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- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmaceutical Outcomes and Policy Department

Chair: R. Segal

Graduate Coordinator: A. Winterstein

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree. Complete descriptions of the requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog.

Other

Pharmaceutical Sciences (Pharmaceutical Outcomes and Policy)

College

[College of Pharmacy](#)

Department/School

[Pharmaceutical Outcomes and Policy Department](#)

Pharmaceutical Outcomes and Policy Program Information

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree.

Research in the Department emphasizes the epidemiological, socio-behavioral, administrative, regulatory, and economic aspects of drug therapy and pharmaceutical services, including assessment of safety, effectiveness, efficiency and quality aspects of patient-oriented pharmaceutical services and medication use.

The department offers both a research-oriented residential M.S.P. and Ph.D. degree programs as well as an online M.S.P. program. For the research oriented degree programs, graduate studies include core curricula and four specializations in patient safety and program evaluation, pharmacoeconomics, pharmacoepidemiology and social-behavioral research in medication use. Electives and required courses draw from the resources of the entire University. Graduates are prepared for leadership positions in academia, public service, pharmaceutical industry, and health service industry with a focus on the evaluation of drugs and related services.

The online non-thesis M.S.P. program is designed for working professionals, and focuses on pharmaceutical regulation and outcomes. Prior pharmacy experience/knowledge is not required and the program is available to persons located in the United States only. Coursework is delivered in both asynchronous and live, synchronous sessions. Students may choose among six specialty tracks including Pharmacy Regulation & Policy, Applied Pharmacoeconomics, Drug Regulatory Affairs, Clinical Research Regulation in Pharmacy, Patient Safety & Medication Risk Management, and Institutional Pharmacy Leadership.

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Pharmaceutical Outcomes and Policy

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

concentration in Medication Therapy Management

concentration in Pharmaceutical Outcomes and Policy

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
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- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
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- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
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- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
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- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
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- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmacotherapy and Translational Research Department

For a full list of faculty, please [follow this link](#).

Description to be added

Other

Pharmaceutical Sciences (Pharmacotherapy and Translational Research)

Description to be added

College

[College of Pharmacy](#)

Department/School

[Pharmacotherapy and Translational Research Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Clinical Pharmaceutical Sciences

Master of Science in Pharmacy

concentration in Clinical Pharmacy

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics

- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching

- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Behavioral Science and Community Health Department

Chair: B. Curbow

Complete faculty listing by department: [Follow this link.](#)

The Department of Behavioral Science & Community Health (BSCH) is one of nine academic departments housed in the School of Public Health and Health Professions at the University of Florida. This department offers a Doctor of Philosophy (PhD) degree (SBS track). For more information about the program, please visit the link below.

Other

Public Health (Ph.D. - Social and Behavioral Sciences)

College

[College of Public Health and Health Professions](#)

Department/School

[Behavioral Science and Community Health Department](#)

Behavioral Science and Community Health Program Information

Social & Behavioral Sciences

The PhD in Public Health -Social and Behavioral Sciences (SBS) Track is targeted to individuals who wish to develop advanced knowledge and skills in the social and behavioral sciences theories and methods used in public health. Training is designed for those who desire public health careers in research, academics, government, or related health organizations. A prior graduate degree in public health or a related field is strongly preferred.

The program is focused upon the assumption that health and health behavior are impacted by multiple psychological, behavioral, social, and cultural factors. Central to addressing health problems and eliminating health disparities and inequalities, these factors must be understood and addressed at multiple social-ecological levels (individual, interpersonal, organizational, community, and population).

PhD students who concentrate in social and behavioral sciences explore the unique issues faced by diverse groups and populations and acquire skills to achieve social and behavioral change.

Contact

Dr. Giselle Carnaby (nee Mann), Program Director
gmamm@phhp.ufl.edu
Phone: 352-273-6745 ext. 36497; ext. 36164 (lab)
Office: HPNP 4172; DG-140 (lab)

For more information, please visit <http://sbs.phhp.ufl.edu/>

Degrees Offered with a Major in Public Health

Doctor of Philosophy

concentration in Social and Behavioral Sciences

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application

- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Interim Chair: Samuel Wu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

Other

Biostatistics (PHHP)

College

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Department

[Biostatistics Department](#)

Biostatistics Program

Doctor of Philosophy

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Degrees

Doctor of Philosophy

Master of Science

Biostatistics Departmental Courses

- GMS 6818: Design and Conduct Clinical Trials I
- GMS 6819: Design and Conduct Clinical Trials II
- GMS 6827: Advanced Clinical Trial Methods
- GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6020: Clinical Trial Methods
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6050C: Biostatistical Methods I
- PHC 6051: Biostatistical Methods II
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
- PHC 6080: SAS for Public Health - Data
- PHC 6081: SAS for Public Health - Analysis
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6937: Special Topics in Public Health

- PHC 6946: Public Health Internship
- PHC 7013: Bias in Observational Research
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7925: Biostatistics Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- STA5223: Applied Sample Survey Methods
- STA5325: Fundamentals of Probability
- STA5328: Fundamentals of Statistical Theory
- STA5503: Categorical Data Methods
- STA5701: Applied Multivariate Methods
- STA5715: Applied Survival Analysis
- STA6092: Applied Statistical Practice
- STA6166: Statistical Methods in Research I
- STA7249: Generalized Linear Models
- STA7346: Statistical Inference

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
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- PHC 6103: Systems Thinking for Public Health
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- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
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- PHC 6317: Risk Communication for Public Health Practice
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- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum

- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Clinical and Health Psychology Department

[College of Public Health and Health Professions](#)

Department Chair: William W. Latimer.

Graduate Coordinator: S.R. Boggs.

Complete faculty listing: [Follow this link.](#)

The Department of Clinical and Health Psychology is a unit of the College of Public Health and Health Professions. The department's programs are its doctoral clinical psychology studies leading to the Ph.D. degree in psychology; an American Psychological Association accredited doctoral internship program; and postdoctoral studies and research. Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

The clinical psychology doctoral curriculum adheres to the scientist-practitioner model of education and training. Program strengths include research, education, and professional training in health care psychology, with organized areas of concentration in clinical health psychology, clinical child/pediatric psychology, neuropsychology, neurorehabilitation and clinical neuroscience, and emotion neuroscience/psychopathology. Education and training experiences are also available in rural psychology. Interested students can apply for acceptance into the Public Health Program and obtain dual M.P.H./Ph.D. degrees.

Progress in the program is determined by departmental policies which are consistent with American Psychological Association accreditation standards. The curriculum has been continuously accredited by the American Psychological Association since 1953.

Admission to the Department is through appropriate application to the Department's admission committee. A bachelor's degree is generally adequate preparation for graduate admission. It should include undergraduate courses in both experimental psychology and statistics, along with at least three courses from the following psychology areas: developmental, learning, perception, personality, physiological, and social.

For more information, please see the program page below and our website: <http://chp.phhp.ufl.edu>.

Other

Psychology (Clinical and Health Psychology - PHHP)

College

[College of Public Health and Health Professions](#)

Department/School

[Clinical and Health Psychology Department](#)

Psychology (Clinical and Health Psychology) Program Information

The department of Clinical and Health Psychology is an academic and professional unit in the College of Public Health and Health Professions at the Health Science Center on the University of Florida campus in Gainesville. The doctoral program in clinical psychology has been accredited by the American Psychological Association since 1953 and adheres to the Scientist-Practitioner Model of education and training. The Clinical Psychology Doctoral program is unique in the country in that it is housed in an independent department of Clinical and Health Psychology in a major academic health science setting along with an APA accredited internship. These features foster program strengths in research, teaching and professional training in health care psychology.

To accommodate the broad range of career trajectories possible within Scientist-Practitioner education and training, the program offers a Scientist-Practitioner Emphasis and a Clinical Researcher Emphasis.

The **Scientist-Practitioner Emphasis** allows the student to obtain broad clinical, academic, and research training that readies them for careers anywhere along the science-practice continuum. The student obtains focused research mentorship in a faculty member's laboratory and obtains broad training in clinical assessment and intervention both in and outside of their designated area of concentration.

The **Clinical Researcher Emphasis** is designed to provide the interested student with more intensive mentor-based training for purposes of preparing for a research career. The Clinical Researcher Emphasis is designed for students who are clearly focused on a research career and therefore want an increased opportunity to perform mentored empirical work. This emphasis focuses on the acquisition of research skills, training in scientific methods and technologies to better understand behavior problems, psychopathology and psychological adjustment to illness and wellness, and to develop empirically validated assessment and treatment procedures. The primary goal of the Clinical Researcher emphasis is to train psychologists for academic settings and other employment venues in which research productivity and innovation is a major job expectancy. In comparison to the scientist-practitioner emphasis, more time is dedicated to research (less time is spent in supervised practicum with the general faculty), and advanced clinical training is focused on patient populations and methods in the student's area of research interest. The Clinical Researcher emphasis follows a "mentorship" model in which the faculty mentor is the student's overall guide and supervisor, and the student's primary research training is accomplished in his/her laboratory.

Students can elect the Clinical Researcher emphasis in the first or second year of study, based on their commitment to a clinical research career and the agreement of a faculty mentor. Students can apply for admission consideration to the Scientist-Practitioner emphasis, the Clinical Researcher emphasis, or both (see Application Procedures).

The Doctoral Program provides the student with training in the concepts, tools, roles, and functions of the clinical psychologist. The overall goals of the graduate program are to prepare the student to:

1. investigate meaningful, empirically testable questions in the quest for understanding a behavioral process, a patient's problem, or a professional issue;
2. function as a professional psychologist;
3. practice competently in the applied areas of psychological assessment/diagnosis, intervention/therapy, and consultation; and
4. contribute to the advancement of psychological knowledge through research or other creative scholarly activity.

Through a combination of general and specialized experiences in the classroom, laboratory, and clinic students develop knowledge and skills as scientist-practitioners. Attitudes are developed toward the practice of psychology and toward related professions which enable effective personal interaction and participation in the interdisciplinary approach to problems of research and practice. As students progress in the program, they develop professional identity through acceptance of increased responsibility for professional decisions, through the execution of significant research projects, and through their contributions to the understanding of psychological problems and processes.

For more information please see our website: <http://chp.phhp.ufl.edu>

Degrees

Doctor of Philosophy

concentration in Clinical and Health Psychology

optional second concentration in Clinical and Translational Science

concentration in Clinical and Translational Science

Master of Arts

Master of Science

Clinical and Health Psychology Departmental Courses

- CLP 5316: Health Psychology
- CLP 5426: Introduction to Neuropsychology
- CLP 6304: Psychological Foundations of Clinical Psychology I
- CLP 6307: Human Higher Cortical Functioning
- CLP 6308: Psychological Foundations of Clinical Psychology II
- CLP 6309: Psychological Foundations of Clinical Psychology III
- CLP 6344C: Lifespan Foundations of Behavioral Health and Illness I
- CLP 6345: Lifespan Foundations of Behavioral Health and Illness II
- CLP 6375: Introduction to Clinical Psychology
- CLP 6407: Psychological Treatment I
- CLP 6417: Psychological Treatment II
- CLP 6425: Seminar in Clinical Neuropsychology
- CLP 6430: Clinical Psychological Assessment
- CLP 6434C: Clinical Psychology Assessment I
- CLP 6435C: Clinical Psychology Assessment II
- CLP 6446C: Psychological Assessment of Children
- CLP 6447C: Psychological Assessment of Adults
- CLP 6476: Lifespan Psychopathology
- CLP 6497: Psychopathological Disturbances
- CLP 6527C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology I
- CLP 6528C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology II
- CLP 6529: Applied Multivariate Methods in Psychology
- CLP 6905: Individual Work
- CLP 6910: Supervised Research
- CLP 6940: Supervised Teaching
- CLP 6943: Core Practicum in Clinical Psychology
- CLP 6945: Advanced Practicum in Neuropsychology
- CLP 6946: Advanced Practicum in Applied Medical Psychology
- CLP 6947: Practicum in Intervention
- CLP 6948: Advanced Practicum in Clinical Child Psychology
- CLP 6971: Research for Master's Thesis
- CLP 7317: Advanced Health Psychology and Behavior Medicine
- CLP 7404C: Special Issues, Methods, and Techniques in Psychological Treatment
- CLP 7427C: Neuropsychological Assessment of Children
- CLP 7428C: Neuropsychological Assessment of Adults
- CLP 7934: Special Topics In Clinical Psychology
- CLP 7949: Internship
- CLP 7979: Advanced Research
- CLP 7980: Research for Doctoral Dissertation
- DEP 6216: Psychological Disturbances of Children
- GEY 6306: Interpersonal Communication Within the Aging Network
- GEY 7408: Psychotherapy with Older Adults

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods

- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research

- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Environmental and Global Health Department

Chair: G. C. Gray

Graduate Studies Program Assistant: N. Burke

Faculty listing: [Follow this link](#)

The Department of Environmental and Global Health focuses upon environmental factors that impact human health. Department faculty, scientists, and students employ numerous disciplines in studying these environmental factors: virology, bacteriology, parasitology, entomology, toxicology, epidemiology, water sciences, veterinary health, environmental engineering, aerosol biology, wildlife health, etc. Research work often involves international travel and collaboration. A central theme for the department is the interdisciplinary thinking called [One Health](#) which reflects the collaborations necessary to tackle public health's most difficult problems. Faculty, students and staff often perform research in the laboratories in the [Emerging Pathogens Institute](#), the [Center for Environmental and Human Toxicology](#), or the [Aquatic Pathobiology Laboratory](#).

The Department of Environmental and Global Health offers graduate work leading to the degrees of Doctor of Philosophy, Master of Health Science, and Master of Public Health.

Other

Environmental and Global Health (M.H.S. - One Health)

College

[College of Public Health and Health Professions](#)

Department

[Environmental and Global Health Department](#)

Degrees Offered With a Major in Environmental and Global Health

Master of Health Science

concentration in One Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS

- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation

- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D. - Environmental and Global Health)

College

[College of Public Health and Health Professions](#)

Department/School

[Environmental and Global Health](#)

Degrees Offered With a Major in Public Health

Doctor of Philosophy

concentration in Environmental Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS

- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
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- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
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- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
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- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
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- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
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- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
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- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
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- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation

- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
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- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D. - One Health)

College

[College of Public Health and Health Professions](#)

Environmental and Global Health Department

[Environmental and Global Health Department](#)

Degrees Offered With a Major in Public Health

Doctor of Philosophy

concentration in One Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
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- PHC 6194: Spatial Epidemiology
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- PHC 6586: Interventions for Public Health
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- PHC 6702: Exposure Measurement and Assessment
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- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
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- PHC 6946: Public Health Internship
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- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation

- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Epidemiology Department

[College of Public Health and Health Professions](#)
[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

Other

Epidemiology (PHHP)

College

[College of Public Health and Health Professions](#)

Department

[Epidemiology Department](#)

Epidemiology Program Information

The **Ph.D. in Epidemiology program** is in the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The program requires a minimum of 90 semester credits beyond the bachelor's degree. All students must complete a minimum of 9 credits in Epidemiology foundation course work, at least 36 credits of epidemiology core courses, 6 credits of statistics electives, 18 credits of epidemiology electives, 15 credits of general electives, and 12 credits of dissertation research. Students must also complete at least two mentored teaching experiences. All entering students who do not hold MPH or equivalent degrees are also required by the College of Public Health and Health Professions to complete an Introduction to Public Health course.

Students in the Ph.D. program in Epidemiology are admitted to work with a research mentor on that mentor's project, and that research mentor funds the student. Other funding sources are available such as the Graduate School and the Department.

The core course work is designed to incorporate competencies recommended in the report of the 2002 workshop on doctoral education in epidemiology from the American College of Epidemiology and the Association of Schools and Programs of Public Health, and criteria for applied epidemiology competencies. The overall outcomes expected of all graduates are as follows:

1. Apply epidemiological methods to address critical and/or emerging public health issues through the use of:

- Appropriate epidemiological research designs
- Advanced statistical analysis methods for health studies
- Data structures and measurement methods for health research
- Biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being
- Depth of knowledge in an area of specialization

2. Assimilate the history, philosophy, and ethical principles of epidemiology into current research
3. Develop grant proposals and manage research projects
4. Write scientific papers for publication in peer-reviewed journals, and communicate research results to scientists, policy makers, and the public
5. Compete successfully for research and teaching positions in academic institutions, federal or state agencies, or private institutions.

Details of the Ph.D. in Epidemiology program and application information are available at our website: <http://epidemiology.phhp.ufl.edu/about/ph-d-in-epidemiology-2>.

The **Master of Science in Epidemiology** degree is offered by the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The 36 credit program prepares students for careers in the public health arena that are focused on the surveillance and prevention of illnesses among diverse populations around the world. Students are trained in the foundational aspects of epidemiology including person, place and time, risk and protective factors, and the social determinants of health. Areas of focus include: chronic disease, infectious disease, geriatric, environmental, psychiatric, social, cancer and maternal and child health epidemiology.

Graduates of the M.S. in Epidemiology program are trained to:

- Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to areas of interest,
- Choose appropriate measurement and analytic methods to study health and disease in a population,
- Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health.

The program consists of required coursework and the successful completion of a thesis. The thesis is required to demonstrate skill in independent inquiry and investigation, under the tutelage of a mentor. Students may complete the course in three semesters with 36 credits.

More program information, including specific course requirements and elective options, is described at the program website: <http://epidemiology.phhp.ufl.edu/about/masters-of-science-in-epidemiology/mse-curriculum-2>.

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Science

Epidemiology (PHHP/COM) Departmental Courses

- GMS 6820: Advanced Epidemiology Methods
- PHC 6008: Cardiovascular Epidemiology
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6034: Epidemic Investigation
- PHC 6070: Epidemiology of Aging
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7007: Cancer Epidemiology
- PHC 7038: Psychiatric Epidemiology
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7427: Ethics in Population Science
- PHC 7727: Grant Writing for Population Health Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7902: Epidemiology Supervised Research Writing Circle
- PHC 7910: International Field Epidemiology
- PHC 7916: National Field Epidemiology
- PHC 7934: Seminar I: Epidemiology Past, Present, and Future
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
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- PHT 6127C: Control of Gait and Posture
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- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation

- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
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- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Health Services Research, Management, and Policy Department

Chair: Arch G. Mainous, III

Graduate Coordinator: Patricia Van Wert

Complete faculty listing: [Follow this link.](#)

The Department of Health Services Research, Management, and Policy offers degree programs at both the master's and doctoral level. The Master of Health Administration (M.H.A.) prepares individuals for management positions in the health care field. The Department also participates in the Master of Public Health (M.P.H.) degree by offering a concentration in Public Health Management and Policy (more information available [here](#)).

At the doctoral level, the Department offers the Ph.D. degree in Health Services Research. This full-time program prepares graduates to investigate and evaluate the complexities of health care systems in the U.S. and elsewhere. Health services research is a multidisciplinary field that examines the delivery, organization, financing, and outcomes of health care services.

Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below and our website: <http://hsmp.php.ufl.edu>.

Other

Health Administration

College

[College of Public Health and Health Professions](#)

Department/School

[Health Services Research, Management, and Policy Department](#)

Health Administration Program Information

The Master of Health Administration (M.H.A.) is a two-year, lock-step program with a summer internship between the first and second years. Small class size permits individual attention and guidance from faculty members. The program prepares qualified individuals motivated by a social mission and responsibility to the community for various management positions in the health services industry. Organizations seek individuals who have the ability to solve business problems and build strategic relationships in a climate of continuous change.

The UF M.H.A. program develops engaged early health care careerists to use evidence-based strategies to improve healthcare quality, affordability, and access. We provide students with fundamental knowledge using a cohort model in a campus-based setting that emphasizes experiential learning and data-driven problem solving both in the classroom and in the practice.

environment. Students will develop proficiency to detect, analyze, manage and respond to critical administrative issues in both provider and non-provider healthcare organizations. Our program embraces ethical conduct and professionalism, diversity and inclusion, practitioner involvement and team-based learning. Faculty inform practice with research and service to the community.

Applicants from any undergraduate major are considered. For more information about our program and details about the MBA/MHA dual degree, please see our website: <http://hsmp.php.ufl.edu/academic-programs/master-of-health-administration>.

Degrees

Master of Health Administration

Health Administration Program Courses

- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6177: Advanced Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6905: Individual Study in Health Administration
- HSA6939: Capstone Seminar in Health Administration

Health Services Research, Management, and Policy Departmental Courses

- HSA5103: Introduction to the U.S. Health Care System
- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6175: Health Care Financial Management
- HSA6177: Advanced Health Care Finance
- HSA6179: Introduction to Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6197: Information Management in Health Administration
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6858: Internship in Health Services Research
- HSA6878: Externship in Legal Aspects of Health Services Administration
- HSA6905: Individual Study in Health Administration
- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6935: Seminar in Health Administration
- HSA6939: Capstone Seminar in Health Administration
- HSA6940: Supervised Teaching
- HSA6946: Internship in Public Health Management and Policy
- HSA7106: Seminar in Health Care Access and Utilization
- HSA7116: Health Services Organizational Research
- HSA7157: Research Foundations of Health Policy
- HSA7414: Society, Health, and Medical Care
- HSA7437: Advanced Health Economics
- HSA7707: Health Services Research Methods I

- HSA 7708: Health Services Research Methods II
- HSA 7759: Quality and Outcomes in Health Services Research
- HSA 7905: Advanced Individual Study in Health Services Research
- HSA 7936: Seminar in Health Care Costs and Financing
- HSA 7938: Advanced Seminar in Health Services Research
- HSA 7979: Advanced Research
- HSA 7980: Research for Doctoral Dissertation
- PHC 6313: Environmental Health Concepts in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
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- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
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- PHC 6404: Gender, Sexuality, and Health
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- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
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- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research

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- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Health Services Research

College

[College of Public Health and Health Professions](#)

Department/School

[Health Services Research, Management, and Policy Department](#)

Health Services Research Program Information

The Department of Health Services Research, Management and Policy offers a doctoral degree in Health Services Research. Health services research is a multidisciplinary field of inquiry, both basic and applied, that examines the use, costs, quality, accessibility, delivery, organization, financing, and outcomes of healthcare services. The objective is to increase knowledge and understanding of the structure and processes of the healthcare system, and to assess subsequent effects on individuals and populations. Health services research draws on a variety of disciplines, and integrates their conceptual frameworks and methods to provide new ways of studying and understanding the health care system.

The Ph.D. Program in Health Services Research prepares individuals to conduct inquiry that will inform government officials, corporate leaders, clinicians, health plan managers, and others making decisions about complex health-related problems and issues. Students in the Ph.D. Program in Health Services Research learn to apply research methods and scientific knowledge to the study of health services organizations and systems.

Graduates of the Ph.D. Program in Health Services Research will find career opportunities in academic, private sector, and public service settings. For example, some graduates will combine research interests with a teaching career and accept academic appointments in a wide range of health-related departments in the nation's colleges and universities. Other graduates will pursue health services research in the context of healthcare delivery and choose employment opportunities with hospitals and health systems, managed care companies, the pharmaceutical industry and consulting firms. Finally, graduates may pursue careers in government or other public service entities (such as private foundations), whose programs are increasingly dependent upon the findings and methodologies of health services research.

For more details about our program, please see our website: <http://hsrmp.php.ufl.edu/academic-programs/ph-d-in-health-services-research>.

Degrees

Doctor of Philosophy

Health Services Research Program Courses

- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6940: Supervised Teaching
- HSA7106: Seminar in Health Care Access and Utilization
- HSA7116: Health Services Organizational Research
- HSA7157: Research Foundations of Health Policy
- HSA7414: Society, Health, and Medical Care
- HSA7437: Advanced Health Economics
- HSA7707: Health Services Research Methods I
- HSA7708: Health Services Research Methods II
- HSA7759: Quality and Outcomes in Health Services Research
- HSA7905: Advanced Individual Study in Health Services Research
- HSA7936: Seminar in Health Care Costs and Financing
- HSA7938: Advanced Seminar in Health Services Research
- HSA7979: Advanced Research
- HSA7980: Research for Doctoral Dissertation

Health Services Research, Management, and Policy Departmental Courses

- HSA5103: Introduction to the U.S. Health Care System
- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
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- HSA7414: Society, Health, and Medical Care
- HSA7437: Advanced Health Economics
- HSA7707: Health Services Research Methods I
- HSA7708: Health Services Research Methods II
- HSA7759: Quality and Outcomes in Health Services Research
- HSA7905: Advanced Individual Study in Health Services Research
- HSA7936: Seminar in Health Care Costs and Financing
- HSA7938: Advanced Seminar in Health Services Research
- HSA7979: Advanced Research
- HSA7980: Research for Doctoral Dissertation
- PHC 6313: Environmental Health Concepts in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation

- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Occupational Therapy Department

Chair: W. C. Mann.

Graduate Coordinator: C. A. Velozo, J.J. Foss.

Complete faculty listing by department: [Follow this link.](#)

The Department of Occupational Therapy offers graduate programs in occupational therapy leading to the Master of Health Science (M.H.S.) degree (on-campus nonthesis and thesis options and distance learning nonthesis option) and the entry-level Master of Occupational Therapy (M.O.T.) degree. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

Master of Health Science: This program is designed for students who have earned an undergraduate degree in Occupational therapy. The thesis option requires four semesters of course work and a formal research thesis, while the nonthesis option requires three semesters of course work and a research project. The program emphasizes research and advanced theories related to occupational therapy practice. Preparation for teaching, administrative, and other occupational therapy roles is supplemented through elective courses. A coherent series of elective courses related to occupational therapy must be approved by the supervisory committee chairperson before the second semester of work.

In addition to the requirements of the Graduate School, admission requires the candidate to have completed a curriculum in occupational therapy accredited by the American Occupational Therapy Association or by the World Federation of Occupational Therapists.

The distance learning degree option for the Master of Health Science is specifically intended to meet the needs of the working professional. The nonthesis program is designed to improve the knowledge and skills of working occupational therapists for practice in a complex and challenging health care system. It provides preparation for new practice areas, leadership roles, and independent practice and is delivered through the Internet. In addition to the departmental requirements listed above, applicants to the distance learning program must have basic personal computer competency and access to a computer that meets minimal configuration requirements.

Additional information about the Master of Health Science is available at <http://www.hp.ufl.edu> or <http://gradschool.rnp.ufl.edu> or by telephone at (352)273-6817. For distance learning, see <http://otdlm.phhp.ufl.edu> or call toll free (866)878-3297.

Master of Occupational Therapy: This entry-level degree program is designed for students who do not have an undergraduate degree in occupational therapy. The program provides students with a holistic perspective, including an understanding of the philosophical and theoretical bases for practice in the current health care environment. The M.O.T. program provides a strong background in theory, assessment, and therapeutic interventions. Before their professional preparation in the M.O.T. program, students receive a liberal education in their pre-professional baccalaureate studies, including several courses specifically focused for students planning to enter the M.O.T. program. Students may enroll in courses in the Bachelor of Health Science degree program at the bachelor's level, or they may complete these courses on a postbaccalaureate level before starting the M.O.T. program. Students are only admitted into the M.O.T. program in summer term and graduate at the end of the fall term after 1.33 years of full-time study (5 semesters) and 58 credits.

Admission requirements include completion of an undergraduate degree and the prerequisite course work. Three letters of reference and a letter of application are required by the Department. Additional information is available at <http://www.phhp.ufl.edu/ot> and <http://gradschool.rnp.ufl.edu> or by telephone (352)273-6817.

This program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association. The address for ACOTE is 4720 Montgomery Lane, Box 31220, Bethesda, MD, 20814-1220. The phone number is (301) 652-2632. Graduates of the program are eligible to sit for the national certification exam administered by the National Board for Certification in Occupational Therapy (NBCOT). The website address of NBCOT is www.nbcot.org.

Other

Occupational Therapy

College

[College of Public Health and Health Professions](#)

Department/School

[Occupational Therapy Department](#)

Occupational Therapy Program Information

The UF Department of Occupational Therapy offers a Masters in Occupational Therapy (MOT). This program prepares students to meet the demands of a highly technological and fast paced American health care system.

The Masters in Occupational Therapy Degree Program is designed for students who do not have a entry-level professional level OT degree. To prepare to enter the Masters in Occupational Therapy program, undergraduate students may complete the University of Florida [Health Science \(BHS\)](#) degree program and the pre-OT track.

Applicants that have earned an undergraduate degree in a program other than UF's Health Science program can enter the MOT program through our [Conditional Graduate program](#).

By completing the Liberal Arts prerequisites for the program, students study the biological, psychological and social systems that impact on the performance of occupational roles. The MOT program provides a strong background in theory, assessment and therapeutic interventions and assists student to develop a strong professional identity.

Students selected from the Health Science/pre-OT track undergraduate program can apply the 6 pre-OT track course toward the MOT requirements for the MOT program. Students who have graduated from the other colleges or universities can be [admitted to the MOT program](#) and complete the 6 pre-OT track courses as part of their graduate program prior to initiating coursework in the Masters in Occupational Therapy Degree Program. The six Health Science [prerequisite courses](#) are offered the Fall and Spring semesters preceding the Summer start of the MOT coursework.

For more information, please see our website: <http://ot.phhp.ufl.edu/academics/mot/program-description>.

Degrees

Master of Health Science

Master of Occupational Therapy

Occupational Therapy Courses

- OTH 5002: Foundations of Occupational Therapy
- OTH 5115C: Therapeutic Skills II: Areas of Occupation
- OTH 5324: Psychosocial Intervention
- OTH 5435: Therapeutic Skills I
- OTH 5722: Professional Development in Occupational Therapy
- OTH 5726C: Service Delivery and OT Management
- OTH 5770C: Research for Occupational Therapy
- OTH 5812: Practicum I
- OTH 5816: Practicum II
- OTH 5848: Internship I
- OTH 5849: Internship II
- OTH 6008: Neuroscience of Human Occupation
- OTH 6106: Assistive Technology and Occupational Performance
- OTH 6539: Occupational Therapy Theory
- OTH 6635: Principles of Occupational Therapy Screening and Evaluation I
- OTH 6636: Principles of Occupational Therapy Screening and Evaluation II
- OTH 6641: Occupational Therapy Interventions I
- OTH 6642: Occupational Therapy Interventions II
- OTH 6707: OT Manager
- OTH 6708: Issues in Occupational Therapy Practice I
- OTH 6709: Issues in Occupational Therapy Practice II
- OTH 6720: Trends and Issues in Health Care
- OTH 6763: Evidence Based Practice
- OTH 6861: Specialty Internship
- OTH 6905: Individual Work
- OTH 6907: Professional Development Project
- OTH 6933: Special Topics in Occupational Therapy

- OTH 6971: Research for Master's Thesis

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation

- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Speech, Language and Hearing Sciences Department

Chair: Scott K. Griffiths

Graduate Coordinators: Kenneth J. Logan and Alice Holmes

Complete faculty listing by department: [Follow this link.](#)

Graduate programs in the Department lead to Master of Arts and Doctor of Philosophy degrees in Communication Sciences and Disorders and to the Doctor of Audiology degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate specializations and programs in speech-language pathology and audiology are accredited by the Council on Academic Accreditation/American Speech-Language-Hearing Association.

The **Doctor of Audiology (Au.D.) Program** in the Department of Speech, Language, and Hearing Sciences is a four-year graduate degree. Graduate students take course work in theoretical and applied audiologic sciences and research. There are no specific undergraduate courses required for admission to the Au.D. degree program, although applicants with a strong science background are encouraged to apply. Graduates of this program are eligible for the Certificate of Clinical Competence in Audiology (CCC-A) administered by the American Speech-Language-Hearing Association, Board Certification in Audiology administered by the American Academy of Audiology, and for state licensure in audiology. For more information, contact Alice Holmes, Ph.D. (aholmes@ufl.edu).

The **Ph.D. Program in Communication Sciences and Disorders** provides a state-of-the-art education in research practices in speech-language pathology and audiology with a strong interdisciplinary focus. Our goal is to prepare the next generation of researchers who are specialized in basic and/or applied science that relates to a range of speech, language, hearing, and swallowing functions. The program is designed to develop researchers who are skilled at independently designing and conducting original research that adds to the body of knowledge in the field. Students are individually mentored and pursue individually designed programs of study tailored to their interests and needs, which incorporate training in appropriate adjunct fields such as engineering, dentistry, gerontology, linguistics, psychology, medicine and special education. For more information, contact Lori Altmann, Ph.D. (laltmann@ufl.edu).

The **Master of Arts (M.A.) Program** offers comprehensive academic training and clinical experience for students who are interested in a career in speech-language pathology. The five-semester program culminates in the completion of either a clinical externship or a Master's thesis, and it provides graduates with a solid foundation for obtaining employment in a variety of work settings. Students have the opportunity to complete clinical practica at sites within the University of Florida's Health Science Center and at other medical, rehabilitative, and educational facilities on or near the campus. These sites allow students to gain experience with providing clinical services to a range of patient populations.

Applicants to the Master's program must demonstrate successful completion of pre-requisite coursework in both normal bases of communication and introductory concepts in communication disorders. Additional information about these pre-requisites is available on the Department website. Graduates of the program are eligible for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association as well as state licensure in speech-language pathology. For more information, contact Kenneth J. Logan, Ph.D. (klogan@ufl.edu).

The Department of Speech, Language, and Hearing Sciences is committed to providing its students with a high-quality educational experience that will prepare them for rewarding employment in the areas of speech-language pathology and audiology, as well as an eagerness for life-long learning and professional development. The department strives to enroll a diverse group of students who possess both high ethical standards and strong academic skills. The application deadlines are January 15 for fall admission to the Ph.D. program, and February 1 for fall admission to the Master's and Au.D. programs.

For more information, please see the program pages below and our website: <http://slhs.php.ufl.edu>.

Other

Audiology

College

[College of Public Health and Health Professions](#)

Department/School

[Speech, Language and Hearing Sciences Department](#)

Degrees Offered with a Major in Audiology

Doctor of Audiology

Speech, Language and Hearing Sciences Departmental Courses

- ASL 5406: Manual Communication with the Hearing Impaired
- LAE 6505: Applied Preschool Language Disorders: Diagnosis and Treatment
- LIN 5741: Applied English Grammar
- SPA 5051: Clinical Observation in Audiology
- SPA 5102: Auditory Anatomy and Physiology
- SPA 5128: Speech Perception
- SPA 5204: Phonological Disorders
- SPA 5211: Voice Disorders
- SPA 5225: Principles of Speech Pathology: Stuttering
- SPA 5245: Communicative Disorders Related to Cleft Palate
- SPA 5254: Neurocognitive Language Disorders
- SPA 5304: Principles of Audiological Evaluation
- SPA 5315: Peripheral and Central Auditory Disorders
- SPA 5401: Speech Pathology Language Disorder
- SPA 5405: Language Disorders II
- SPA 5553: Instrumentation and Diagnosis in Speech-Language Pathology
- SPA 5563: Psychosocial Aspects of Hearing Loss
- SPA 5646: Speech and Language of the Deaf and Hard of Hearing
- SPA 6008: Medical Aspects of Speech-Language Pathology
- SPA 6010: Basic Auditory Sciences
- SPA 6117: Science of Singing
- SPA 6133L: Hearing Aid Analysis Laboratory
- SPA 6207: Applied Phonological Disorders: Diagnosis and Treatment
- SPA 6211: Applied Voice Disorders: Diagnosis and Treatment
- SPA 6217: Vocal Health and Habilitation
- SPA 6229: Applied Fluency Disorders: Diagnosis and Treatment
- SPA 6233: Speech Motor Control Disorders
- SPA 6270: Auditory Processing Disorders
- SPA 6805: Introduction to Graduate Research
- SPA 6305: Pediatric Audiology
- SPA 6311: Medical Audiology
- SPA 6312: Advanced Audiology and Neuro-Otology
- SPA 6317: Vestibular Disorders
- SPA 6323: Audiologic Rehabilitation for Adults
- SPA 6324: Audiologic Rehabilitation for Children
- SPA 6340: Amplification I
- SPA 6341: Amplification II
- SPA 6342: Amplification III
- SPA 6390: Proseminar: Speech-Language Pathology and Audiology
- SPA 6410: Adult Language Disorders
- SPA 6416: Applied Neurogenic Disorders: Diagnosis and Treatment
- SPA 6430: Applied Developmental Disorders: Diagnosis and Treatment in Speech and Language
- SPA 6436: Issues in Autism Spectrum Disorders
- SPA 6506: Clinical Clerkship in Audiology
- SPA 6507: Applied Augmentative and Alternative Communication
- SPA 6521: Practicum in Speech-Language Diagnostics: UFSHC
- SPA 6524: Practicum in Speech-Language Therapy: UFSHC
- SPA 6531: Clinical Practice in Hearing Assessment
- SPA 6533: Clinical Practice in Aural Rehabilitation
- SPA 6559: Alternative and Augmentative Communication
- SPA 6564: Communication and Aging
- SPA 6565: Seminar in Dysphagia
- SPA 6568: Clinical Evaluation in Medical Speech-Language Pathology
- SPA 6570: Seminar: Professional Aspects of Speech-Language Pathology
- SPA 6581: Special Clinical
- SPA 6830: Communication Disorders in Medically Complex Pediatric Populations

- SPA 6905: Individual Study
- SPA 6910: Supervised Research
- SPA 6930: Proseminar in Speech-Language Pathology and Audiology
- SPA 6935: Applied Reading Disabilities: Diagnosis and Treatment
- SPA 6936: Special Topics
- SPA 6940: Supervised Teaching
- SPA 6942: Externship in Speech-Language Pathology
- SPA 6971: Research for Master's Thesis
- SPA 7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions
- SPA 7306: Audiologic Assessment in a Medical Setting
- SPA 7318: Clinical Auditory Electrophysiology
- SPA 7319: Balance Disorders: Evaluation and Treatment
- SPA 7325: Audiologic Rehabilitation
- SPA 7343: Cochlear Implants and Assistive Devices
- SPA 7348: Principles of Amplification
- SPA 7353: Environmental Hearing Conservation
- SPA 7354: Seminar in Audiology: Hearing Conservation and Noise Control
- SPA 7391: Business and Professional Issues in Audiology
- SPA 7415: Neurolinguistics of Adult Language Disorders
- SPA 7500: Public School Practicum
- SPA 7523: Practicum in Speech Pathology in a Medical/Dental Setting
- SPA 7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders
- SPA 7566: Counseling Individuals with Hearing Losses
- SPA 7833: Audiology Research Project
- SPA 7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities
- SPA 7945: Graduate Practicum in Audiology
- SPA 7946: Clinical I: Practicum in Medical Speech and Language Pathology
- SPA 7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology
- SPA 7958: Clinical Externship
- SPA 7979: Advanced Research
- SPA 7980: Research for Doctoral Dissertation

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
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- PHC 6103: Systems Thinking for Public Health
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- PHC 6544: Health Behavior Interventions in Practice

- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Communication Sciences and Disorders

College

[College of Public Health and Health Professions](#)

Department/School

[Speech, Language and Hearing Sciences Department](#)

Degrees Offered with a Major in Communication Sciences and Disorders

Doctor of Philosophy

Master of Arts

Speech, Language and Hearing Sciences Departmental Courses

- ASL 5406: Manual Communication with the Hearing Impaired
- LAE 6505: Applied Preschool Language Disorders: Diagnosis and Treatment
- LIN 5741: Applied English Grammar
- SPA 5051: Clinical Observation in Audiology
- SPA 5102: Auditory Anatomy and Physiology
- SPA 5128: Speech Perception
- SPA 5204: Phonological Disorders
- SPA 5211: Voice Disorders
- SPA 5225: Principles of Speech Pathology: Stuttering
- SPA 5245: Communicative Disorders Related to Cleft Palate
- SPA 5254: Neurocognitive Language Disorders
- SPA 5304: Principles of Audiological Evaluation
- SPA 5315: Peripheral and Central Auditory Disorders
- SPA 5401: Speech Pathology Language Disorder
- SPA 5405: Language Disorders II
- SPA 5553: Instrumentation and Diagnosis in Speech-Language Pathology
- SPA 5563: Psychosocial Aspects of Hearing Loss
- SPA 5646: Speech and Language of the Deaf and Hard of Hearing
- SPA 6008: Medical Aspects of Speech-Language Pathology
- SPA 6010: Basic Auditory Sciences
- SPA 6117: Science of Singing
- SPA 6133L: Hearing Aid Analysis Laboratory
- SPA 6207: Applied Phonological Disorders: Diagnosis and Treatment
- SPA 6211: Applied Voice Disorders: Diagnosis and Treatment
- SPA 6217: Vocal Health and Habilitation
- SPA 6229: Applied Fluency Disorders: Diagnosis and Treatment
- SPA 6233: Speech Motor Control Disorders
- SPA 6270: Auditory Processing Disorders
- SPA 6805: Introduction to Graduate Research
- SPA 6305: Pediatric Audiology
- SPA 6311: Medical Audiology
- SPA 6312: Advanced Audiology and Neuro-Otology
- SPA 6317: Vestibular Disorders
- SPA 6323: Audiologic Rehabilitation for Adults
- SPA 6324: Audiologic Rehabilitation for Children
- SPA 6340: Amplification I
- SPA 6341: Amplification II
- SPA 6342: Amplification III
- SPA 6390: Proseminar: Speech-Language Pathology and Audiology
- SPA 6410: Adult Language Disorders
- SPA 6416: Applied Neurogenic Disorders: Diagnosis and Treatment
- SPA 6430: Applied Developmental Disorders: Diagnosis and Treatment in Speech and Language
- SPA 6436: Issues in Autism Spectrum Disorders
- SPA 6506: Clinical Clerkship in Audiology
- SPA 6507: Applied Augmentative and Alternative Communication
- SPA 6521: Practicum in Speech-Language Diagnostics: UFSHC
- SPA 6524: Practicum in Speech-Language Therapy: UFSHC
- SPA 6531: Clinical Practice in Hearing Assessment
- SPA 6533: Clinical Practice in Aural Rehabilitation
- SPA 6559: Alternative and Augmentative Communication
- SPA 6564: Communication and Aging
- SPA 6565: Seminar in Dysphagia
- SPA 6568: Clinical Evaluation in Medical Speech-Language Pathology
- SPA 6570: Seminar: Professional Aspects of Speech-Language Pathology
- SPA 6581: Special Clinical
- SPA 6830: Communication Disorders in Medically Complex Pediatric Populations
- SPA 6905: Individual Study
- SPA 6910: Supervised Research
- SPA 6930: Proseminar in Speech-Language Pathology and Audiology
- SPA 6935: Applied Reading Disabilities: Diagnosis and Treatment
- SPA 6936: Special Topics
- SPA 6940: Supervised Teaching
- SPA 6942: Externship in Speech-Language Pathology
- SPA 6971: Research for Master's Thesis

- SPA 7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions
- SPA 7306: Audiologic Assessment in a Medical Setting
- SPA 7318: Clinical Auditory Electrophysiology
- SPA 7319: Balance Disorders: Evaluation and Treatment
- SPA 7325: Audiologic Rehabilitation
- SPA 7343: Cochlear Implants and Assistive Devices
- SPA 7348: Principles of Amplification
- SPA 7353: Environmental Hearing Conservation
- SPA 7354: Seminar in Audiology: Hearing Conservation and Noise Control
- SPA 7391: Business and Professional Issues in Audiology
- SPA 7415: Neurolinguistics of Adult Language Disorders
- SPA 7500: Public School Practicum
- SPA 7523: Practicum in Speech Pathology in a Medical/Dental Setting
- SPA 7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders
- SPA 7566: Counseling Individuals with Hearing Losses
- SPA 7833: Audiology Research Project
- SPA 7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities
- SPA 7945: Graduate Practicum in Audiology
- SPA 7946: Clinical I: Practicum in Medical Speech and Language Pathology
- SPA 7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology
- SPA 7958: Clinical Externship
- SPA 7979: Advanced Research
- SPA 7980: Research for Doctoral Dissertation

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
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- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology

- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

Departments and Programs within the College of Agricultural and Life Sciences

College of Agricultural and Life Sciences

Dean: Elaine Turner

Complete faculty listings: [Follow this link.](#)

The College of Agricultural and Life Sciences offers academic programs and grants advanced degrees in 17 departments and the Schools of Forest Resources and Conservation, and Natural Resources and Environment. These academic units are all a part of the Institute of Food and Agricultural Sciences (IFAS). Additional components of IFAS include 16 research centers located throughout the state and cooperative extension offices in each of the 67 counties of the state.

The following courses are offered under the supervision of the office of the dean by an interdisciplinary faculty and deal with material of concern to two or more IFAS academic units. The courses are also open to students of other colleges, with the permission of the course instructor.

For more information, please see our website: <http://cals.ufl.edu>

[Departments and Programs within the College of Agricultural and Life Sciences](#)

[College of Agricultural and Life Sciences Courses](#)

Other

Genetics and Genomics

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Medicine](#)

Genetics and Genomics Program

Chair: C. Mulligan

Graduate Coordinator: J. Bungert

Complete faculty listing: [Follow this link](#)

or visit media.news.health.ufl.edu/misc/mgm/UFGL/search/members-list4.php

The University of Florida Genetics Institute is a multi-college, multi-faceted research center. Good geneticists are integrative geneticists, who incorporate many different subfields of genetics into their work. The core mission is to improve the quality of life of people throughout the world via integrative, genetics-based research. Accordingly, faculty interests and graduate research opportunities include a wide range of areas from advances in gene therapy to understanding the maintenance of genetic variation, from understanding plant immune responses to developing

improved algorithms for identifying regulatory motifs in DNA sequences, and from the challenges of bioethics to strategies for controlling malaria.

The highlight of the first year core training is the research rotations program. Student laboratory rotations are a particularly exciting feature of the genetics and genomics doctoral program, and epitomize the philosophy that good geneticists are broadly trained and integrative. Many current Graduate Faculty members still vividly recall the transforming effects of their rotations during graduate school—they didn't always end up where they expected! Rotations can open students' eyes to areas of genetics that they had never considered and entice them into considering brand new career opportunities. Each student will sample the breadth and depth of genetics research at UF by carrying out three 8-week modules consisting of design, implementation, and analysis of genetics experiments. Each rotation is conducted in close association with a Graduate Faculty member. To ensure that students fully experience the impressive breadth of genetics research at UF, their rotations are hosted by Graduate Faculty in at least two different colleges. Students will also take [PCB 5065](#), Advanced Genetics; [GMS 6181](#), Special Topics in Microbiology (among the topics are genomics and bioinformatics, and ethics for genetics research); [STA 6166](#), Statistical Methods I; and other electives as desired. In addition, throughout their tenure in the program, students participate in the Genetics Seminar, which is an opportunity to present their rotation plans and results of research to faculty and other students.

Prospective students should have strong backgrounds in biology and other hard sciences. Exceptional students with other backgrounds will also be considered. The research statement required as part of the application has a particularly important part in the admissions decision. Each applicant must describe his/her research interests, so that Graduate Faculty can evaluate knowledge of the discipline, fit to the program, and ability to articulate and motivate an interesting research problem. The required letters of recommendation are also extremely important in helping identify applicants with exceptional aptitude for genetics, and with research experience and promise.

For more information, write to the Genetics and Genomics Graduate Program, Attn: Graduate Secretary, Genetics Institute, University of Florida, PO Box 100196, Gainesville, FL 32610-0196.

Expanded information can be found at <http://www.ufgi.ufl.edu>.

Degrees Offered with a Major in Genetics and Genomics

Doctor of Philosophy

Doctor of Philosophy - Clinical and Translational Science

Courses

- AGR 6322: Advanced Plant Breeding
- ANG 6532: Molecular Genetics of Disease
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 7410: Advanced Gene Regulation
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5805: Computer Simulation Concepts
- CIS 6930: Special Topics in CIS
- COT 5405: Analysis of Algorithms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6920: Genetics Journal Colloquy
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- HOS 6201: Breeding Perennial Cultivars
- PCB 5065: Advanced Genetics
- PCB 5235L: Experiments in Immunology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6178: Genetic Data Analysis
- STA 6208: Basic Design and Analysis of Experiments
- STA 6329: Matrix Algebra and Statistical Computing
- STA 6934: Special Topics in Statistics
- STA 7979: Advanced Research
- STA 7980: Research for Doctoral Dissertation
- ZOO 6927: Special Topics in Zoology
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

Other

Agricultural and Biological Engineering (CALS)

College

- [College of Agricultural and Life Sciences](#)
- [College of Engineering](#)

Department/School

[Agricultural and Biological Engineering Department](#)

Agricultural and Biological Engineering Program

The degrees of Master of Science, Master of Engineering, and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Additional information can also be found on the graduate studies pages on the department website at www.abe.ufl.edu.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Degrees Offered with a Major in Agricultural and Biological Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Agricultural and Biological Engineering Courses

- ABE 5015: Empirical Models of Crop Growth and Yield Response
- ABE 5038: Recent Developments and Applications in Biosensors
- ABE 5152: Electro-Hydraulic Circuits and Controls
- ABE 5332: Advanced Agricultural Structures

- ABE 5442: Advanced Agricultural Process Engineering
- ABE 5643C: Biological Systems Modeling
- ABE 5646: Biological and Agricultural Systems Simulation
- ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials
- ABE 5663: Advanced Applied Microbial Biotechnology
- ABE 5707C: Agricultural Waste Management
- ABE 5815C: Food and Bioprocess Engineering Design
- ABE 6005: Applied Control for Automation and Robots
- ABE 6031: Instrumentation in Agricultural Engineering Research
- ABE 6035: Advanced Remote Sensing: Science and Sensors
- ABE 6037C: Remote Sensing in Hydrology
- ABE 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6265: Vadose Zone Modeling
- ABE 6266: Nanotechnology in Water Research
- ABE 6615: Advanced Heat and Mass Transfer in Biological Systems
- ABE 6644: Agricultural Decision Systems
- ABE 6816: Food and Bioprocess Sterilization
- ABE 6905: Individual Work in Agricultural and Biological Engineering
- ABE 6910: Supervised Research
- ABE 6931: Seminar
- ABE 6933: Special Topics in Agricultural and Biological Engineering
- ABE 6940: Supervised Teaching
- ABE 6971: Research for Master's Thesis
- ABE 6972: Research for Engineer's Thesis
- ABE 6974: Nonthesis Project
- ABE 6986: Applied Mathematics in Agricultural and Biological Engineering
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- AOM5334C: Agricultural Chemical Application Technology
- AOM5431: GIS and Remote Sensing in Agriculture and Natural Resources
- AOM5435: Advanced Precision Agriculture
- AOM6905: Individual Work in Agricultural Operations Management
- AOM6932: Special Topics in Agricultural Operations Management
- CWR 6536: Stochastic Subsurface Hydrology
- PKG 5003: Advanced Distribution and Transport Packaging
- PKG 5006: Advanced Packaging Principles
- PKG 5105: Advanced Consumer Products Packaging
- PKG 5206C: Advanced Package Decoration
- PKG 5256C: Advanced Analytical Packaging Methods
- PKG 6100: Advanced Computer Tools for Packaging
- PKG 6905: Individual Work in Packaging
- PKG 6932: Special Topics in Packaging Sciences

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agricultural Education and Communication Department

Chair: E. W. Osborne

Graduate Coordinator: B. E. Myers

Complete faculty listing by department: [Follow this link.](#)

The Department of Agricultural Education and Communication offers the degrees of Master of Science and Doctor of Philosophy. Graduate students who obtain a degree in Agricultural Education and Communication will focus their study in one of four areas of specialization. The areas of specialization are agricultural communication, agricultural education, extension education, and leadership development. These degree programs are individually tailored to meet the student's unique needs for professional development. The requirements for each degree are described in the [Graduate Degrees](#) section of the University of Florida Graduate Catalog. More information about our program can be found by following the link below.

Other

Agricultural Education and Communication

College

[College of Agricultural and Life Sciences](#)

Department/School

[Agricultural Education and Communication Department](#)

Agricultural Education and Communication Program

The Master of Science program is designed to prepare graduates for domestic and international teaching, research, extension, administrative and leadership positions in both the public and private sectors. Courses are taught in an agricultural and natural resources context and are broadly applicable in educational, business, government, and agency settings. The Master of Science program is delivered on-campus and online via the AEC e-Learning Institute (eLI). The Doctor of Philosophy degree program is primarily designed to prepare graduates for academic positions in teaching, research, and extension within the realm of Agricultural Education and Communication. In addition, graduates may obtain positions in administration, human resource management, or training and development.

The **Agricultural Communication** specialization prepares students for professional communication careers in or dealing with agriculture and agribusiness. It is intended primarily for students who enter with a bachelor's degree in journalism, agricultural communication/journalism, advertising, broadcasting, public relations, or related fields. Graduates of this option are employed in: (1) communication or management positions with the numerous commodity or special-interest associations in agriculture and related fields; (2) communication support positions in agricultural extension and research information departments of land-grant universities, agencies of USDA, state Departments of Agriculture, and agricultural development projects overseas; (3) advertising and public relations positions with agribusiness firms or commodity associations; and (4) media positions involved in reporting on agriculture, agribusiness, and natural resource issues. Students in Agricultural Communication also develop strong skills/application in media writing, production, campaign strategies and/or Web design/desktop publishing. Graduates become prepared for positions in both public and private sectors in both industry and educational settings.

The **Agricultural Education** specialization is designed to enhance the careers of those employed in the educational professions in agriculture and natural resources. Regardless if one is employed in public school teaching, community college instruction, or training and development in agribusiness, students gain valuable knowledge and experience in designing, implementing, and evaluating educational programs. In addition, graduates of the program command added depth in the understanding of the teaching and learning process. This specialization may be designed to allow students to complete the requirements of teacher certification while completing their master's degree program. The PhD is a research-oriented degree that has a primary focus of preparing candidates to assume faculty positions in colleges or university teacher education programs. Candidates develop an individual program of study that provides a comprehensive knowledge of teaching and learning processes. The degree also seeks to extend the candidate's development by providing instruction, research opportunities, and experiences that enhance the depth and breadth of the candidate's prior learning opportunities.

The **Extension Education** specialization is designed to prepare students for careers in the Cooperative Extension service, outreach education, and/or other international agencies. Through coursework and research, students will gain valuable knowledge and experience in designing, implementing, and evaluating educational programs. Extension graduate students choose between a domestic or international focus in regards to coursework and/or research. In addition, graduates of the program command tremendous depth of the teaching and learning process. Candidates who select the **Extension Education** specialization develop an individual program of study that focuses on such topics as program development, experiential education, the change process, educational technologies and extension, program evaluation and organizational accountability, administration and leadership, and international extension. Graduates become prepared for a variety of positions including extension specialists, county and district extension directors, outreach education coordinators for private and public agencies, 4-H Extension agents and specialists, and educator specialists with international agencies.

The **Leadership Development** specialization is designed to prepare students for educational leadership, training, and outreach positions in agricultural, extension, community and governmental agencies. Course work in the major will focus on a core of agricultural courses along with emphasis in designing educational/training programs, professional presentation enhancement, leadership development, teaching/training methods, and interpersonal communication. Candidates who select the **Leadership Development** specialization develop an individual program that focuses on leadership theory and measurement, critical and creative thinking, and leadership in cross-cultural settings. Students will encompass a strong research and theory-based program with a strong knowledge of training and development, and human resource management. Graduates become prepared for positions in both public and private sectors in both industry and educational settings.

Degrees Offered with a Major in Agricultural Education and Communication

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

Master of Science

without a concentration

concentration in Tropical Conservation and Development

Agricultural Education and Communication Courses

- AEC 5032: Agricultural Media Writing
- AEC 5037: Agricultural Media Production
- AEC 5060: Public Opinion and Agricultural and Natural Resource Issues
- AEC 5074: Agriculture, Resources, People, and the Environment: A Global Perspective
- AEC 5201: Teaching in Colleges of Agricultural and Life Sciences
- AEC 5203: Advanced Teaching in Colleges of Agricultural and Life Sciences
- AEC 5206: Teaching Methods in Agricultural Education
- AEC 5227: Teaching in Agricultural Education Laboratory Facilities
- AEC 5302: Professional Skill Development in Agriscience Education I
- AEC 5324: Philosophy and Development of Agricultural Education
- AEC 5454: Leadership Development for Extension and Community Nonprofit Organizations
- AEC 5501: Professional Skill Development in Agriscience Education II
- AEC 5541: Communication and Instructional Technologies in Agricultural and Life Sciences
- AEC 5544: Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies
- AEC 5545: Special Methods in Teaching Agriculture
- AEC 5546: Program Planning in Agricultural Education
- AEC 6205: Advanced Curriculum and Teaching Methods
- AEC 6210: Designing Educational Programs in Agricultural Settings
- AEC 6211: Delivering Educational Programs in Agricultural Settings
- AEC 6212: Teacher Education in Agriculture
- AEC 6229: Laboratory Instruction: Theory and Practice
- AEC 6300: Methodology of Planned Change
- AEC 6316: From America to Zimbabwe: An Overview of International Extension Systems
- AEC 6321: The Land Grant University and University Governance
- AEC 6325: History and Philosophy of Agricultural Education
- AEC 6419: Communication and Competencies for Global Leadership
- AEC 6426: Development of a Volunteer Leadership Program
- AEC 6512: Program Development in Extension Education
- AEC 6540: Agricultural and Natural Resources Communications Theory and Strategies
- AEC 6543: Teaching and Learning Theory: Applications in Agricultural Education
- AEC 6552: Evaluating Programs in Extension Education
- AEC 6611: Agricultural and Extension Adult Education
- AEC 6704: Extension Administration and Supervision
- AEC 6767: Research Strategies in Agricultural Education and Communication
- AEC 6905: Problems in Agricultural and Extension Education
- AEC 6910: Supervised Research
- AEC 6912: Nonthesis Research in Agricultural and Extension Education
- AEC 6933: Seminar in Agricultural Education and Communication
- AEC 6940: Supervised Teaching
- AEC 6945: Practicum in Agricultural Education and Communication
- AEC 6947: Experiential Learning in Agricultural Education
- AEC 6971: Research for Master's Thesis
- AEC 7979: Advanced Research
- AEC 7980: Research for Doctoral Dissertation
- AGG 5504: Critical and Creative Thinking in Problem Solving and Decision Making

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agronomy Department

Chair: R. A. Gilbert

Graduate Coordinator: L. E. Sollenberger

Complete faculty listing by department: [Follow this link.](#)

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis options) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agricultural and natural ecosystems in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

Other

Agronomy

College

[College of Agricultural and Life Sciences](#)

Department/School

[Agronomy Department](#)

Agronomy Program Information

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis option) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agronomic plants in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

Degrees Offered with a Major in Agronomy

Doctor of Philosophy

without a concentration

concentration in Toxicology

concentration in Tropical Conservation and Development

Master of Science

without a concentration

concentration in Agroecology

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

Agronomy Departmental Courses

- AGR 5215C: Integrated Field Crop Science
- AGR 5230C: Florida Grassland Agroecosystems
- AGR 5266C: Field Plot Techniques
- AGR 5277C: Tropical Crop Production
- AGR 5307: Molecular Genetics for Crop Improvement
- AGR 5321C: Genetic Improvement of Plants
- AGR 5444: Ecophysiology of Crop Production
- AGR 5511: Crop Ecology
- AGR 6233: Tropical Grassland Agroecosystems
- AGR 6237C: Research Techniques in Forage Evaluation
- AGR 6311: Population Genetics
- AGR 6322: Advanced Plant Breeding
- AGR 6325L: Plant Breeding Techniques
- AGR 6353: Cytogenetics
- AGR 6422C: Environmental Crop Nutrition
- AGR 6442C: Physiology of Agronomic Plants
- AGR 6905: Agronomic Problems
- AGR 6910: Supervised Research
- AGR 6932: Topics in Agronomy
- AGR 6933: Graduate Agronomy Seminar
- AGR 6940: Supervised Teaching
- AGR 6971: Research for Master's Thesis
- AGR 7979: Advanced Research
- AGR 7980: Research for Doctoral Dissertation
- ALS 5155: Global Agroecosystems
- IPM5305: Principles of Pesticides
- PLS 5632C: Integrated Weed Management
- PLS 5652: Advanced Weed Science
- PLS 6623: Weed Ecology
- PLS 6626: Invasive Plant Ecology
- PLS 6655: Plant/Herbicide Interaction

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals

- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Animal Sciences Department

Chair: G. E. Dahl

Graduate Coordinator: G. Adesogan

Complete faculty listing by department: [Follow this link.](#)

Animal Sciences is an academic department of the [College of Agriculture and Life Sciences \(CALS\)](#), a unit of the [Institute of Food and Agricultural Sciences \(IFAS\)](#). Creating new solutions to tomorrow's problems underlies everything we do in the Animal Sciences Program. In the areas of teaching, research, and extension, our faculty integrates the most modern technologies available with personal expertise and attention to the needs of students and our industry. For more information about the Animal Sciences program, please follow the link below.

Other

Animal Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Animal Sciences Department](#)

Animal Sciences Program

The Department of Animal Sciences offers the degrees of Master of Science and Doctor of Philosophy in animal sciences with emphasis in beef or dairy cattle, swine, or equine. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The following specializations are available:

- Breeding and genetics
- Management
- Nutrition (nutritional physiology, nutrient metabolism, and feedstuff utilization)
- Physiology (environmental, lactational, and reproductive)
- Molecular biology (embryology, endocrinology, and genetics)
- Meat science (meat processing, meat quality, muscle biology, and food safety)

A student may work on a problem covering more than one area of study. Animal resources (beef cattle, dairy cattle, horses, swine, sheep, and laboratory animals) are available for use in various research programs. Nutrition, physiology, and meats laboratories are available for detailed chemical and carcass quality evaluations, and excellent computer facilities are available. Special arrangements may be made to conduct research at the various branch agricultural experiment stations throughout Florida.

Departmental and program prerequisites for admission to graduate study include a sound science background, with basic courses in microbiology, biology, mathematics, and chemistry. All courses in the animal sciences program area are acceptable for graduate credit as part of the candidate's major.

The Graduate School restricts graduate students from pursuing minors in academic units that contribute major credit toward their degree program. Therefore, graduate students majoring in Animal Sciences cannot pursue a minor in Food and Resource Economics, Food Science and Human Nutrition, Medicine-Biochemistry, and Veterinary Medical Sciences. In addition, undergraduate credits at the 3000-4000 level in the major of any of these listed academic units are not eligible to count toward degree requirements.

Degrees Offered with a Major in Animal Sciences

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

Master of Science

without a concentration

Animal Sciences Departmental Courses

- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6314: Experimental Embryology
- ANS 6447: Ruminant Nutrition
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- ANS 6705: Muscle Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
- ANS 6767: Molecular Endocrinology
- ANS 6775: Essentials of Livestock Immunology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- PCB 6816: Thermal Physiology

Additional Courses for Major Credit in Animal Sciences

- AEB 5326: Agribusiness Financial Management
- AEB 6385: Management Strategies for Agribusiness Firms
- AEB 7182: Agricultural Risk Analysis and Decision Making
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5732: Current Issues in Food Regulations
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- VME 5162C: Avian Diseases
- VME 5244: Physiology: Organ Systems

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Entomology and Nematology Department

[College of Agricultural and Life Sciences](#)

Chair: John L. Capinera.

Graduate Coordinator: Heather J. McAuslane.

Complete faculty listing by department: [Follow this link.](#)

The Entomology and Nematology Department offers the Master of Science (thesis and nonthesis options) and Doctor of Philosophy degrees in entomology and nematology with the following specializations: entomology, nematology, and pest management. Minimum requirements for the M.S. and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

The Department also offers a cooperative Doctor of Philosophy degree with Florida A&M University and distance education courses leading to the M.S. degree. Members of the Graduate Faculty include the department resident faculty, faculty located on University of Florida campuses away from Gainesville, scientists with other State of Florida agencies such as the Division of Plant Industry and Florida Department of Agriculture and Consumer Services, and scientists of the U.S. Department of Agriculture. The Graduate Faculty is qualified to direct graduate students in all specialties of entomology, nematology, and acarology.

New graduate students should have backgrounds in biology, chemistry, physics, and mathematics. Minor deficiencies may be made up after entering graduate school.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please see the program page below, and visit our website: <http://entnemdept.ufl.edu>.

Other

Entomology and Nematology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Entomology and Nematology Department](#)

Entomology and Nematology Program Information

The Entomology and Nematology department offers research-based M.S. (thesis) and PhD degrees in entomology and in nematology. Our large faculty in Gainesville and at Research and Education Centers around the state allow for study in many important areas, including behavior, ecology, systematics, biological control, nematology, pest management, and medical, veterinary and urban entomology. Molecular, whole organism and population ecology studies are all within the range of supported research in the Entomology and Nematology department, and our nematology program is one of the most comprehensive in the nation.

The M.S. degree can be taken in a non-thesis format, in Gainesville or entirely online, with a specialization in either entomology or pest management. Online M.S. degrees are designed to accommodate place-bound students interested in biological science with emphasis on insects and other arthropods, including extension faculty and other educators; state and federal employees in agricultural, environmental and regulatory positions; consultants; pest control industry personnel; and others who want to further their education.

Certificates, comprising 15 credit hours of specific coursework, are available online or to residential students with concentrations in urban pest management, landscape pest management or medical entomology. These certificates document specialization and proficiency in sub-disciplines within entomology for enrolled graduate students and provide evidence of expertise for non-degree seeking students.

Students entering graduate programs in entomology and nematology should have a strong science background, including biology, chemistry, and algebra. Physics and statistics are recommended. Admissions criteria can be found on the Graduate School's [Admission](#) page.

Degrees Offered with a Major in Entomology and Nematology

Doctor of Philosophy

Master of Science

Entomology and Nematology Departmental Courses

- ALS 5156: Agricultural Ecology Principles and Applications
- ALS 6046: Grant Writing
- ALS 6166: Exotic Species and Biosecurity Issues
- ALS 6935: Topics in Biological Invasions
- ENY 5006: Graduate Survey of Entomology
- ENY 5006L: Graduate Survey of Entomology Laboratory
- ENY 5031C: Insect Field Biology
- ENY 5151C: Techniques in Insect Systematics
- ENY 5160C: Survey of Science with Insects
- ENY 5164: Graduate Survey of Invertebrate Field Biology
- ENY 5212: Insects and Wildlife
- ENY 5223C: Biology and Identification of Urban Pests
- ENY 5226C: Principles of Urban Pest Management
- ENY 5332: Graduate Survey of Urban Vertebrate Pest Management
- ENY 5236: Insect Pest and Vector Management
- ENY 5241: Biological Control
- ENY 5245: Agricultural Acarology
- ENY 5405: Insects as Vectors of Plant Pathogens
- ENY 5516: Turf and Ornamental Entomology
- ENY 5566: Tropical Entomology
- ENY 5567: Tropical Entomology Field Laboratory
- ENY 5572: Advanced Apiculture
- ENY 5611: Immature Insects
- ENY 5820: Insect Molecular Genetics
- ENY 6166: Insect Classification
- ENY 6203: Insect Ecology
- ENY 6203L: Insect Ecology Laboratory
- ENY 6248: Termite Biology and Control
- ENY 6401: Insect Physiology
- ENY 6401L: Insect Physiology Laboratory
- ENY 6454: Behavioral Ecology and Systematics of Insects
- ENY 6591C: Advanced Mosquito Identification
- ENY 6593: Advanced Mosquito Biology
- ENY 6651C: Insect Toxicology
- ENY 6665: Advanced Medical and Veterinary Entomology I
- ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory
- ENY 6706: Forensic Entomology
- ENY 6706L: Forensic Entomology Laboratory
- ENY 6821: Insect Microbiology
- ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens
- ENY 6905: Problems in Entomology
- ENY 6910: Supervised Research
- ENY 6931: Entomology Seminar
- ENY 6932: Special Topics in Entomology
- ENY 6934: Selected Studies in Entomology
- ENY 6940: Supervised Teaching
- ENY 6942: Insect Diagnostics
- ENY 6943: Entomology Internship
- ENY 6944: Entomology Extension Internship
- ENY 6971: Research for Master's Thesis
- ENY 7979: Advanced Research
- ENY 7980: Research for Doctoral Dissertation
- NEM 5004C: Graduate Survey of Nematology
- NEM 5707C: Plant Nematology
- NEM 6101C: Nematode Morphology and Anatomy
- NEM 6102: Nematode Systematics and Molecular Phylogeny
- NEM 6102L: Nematode Systematics and Molecular Phylogeny Laboratory
- NEM 6103: Insect Parasitic Nematodes
- NEM 6104L: Insect Parasitic Nematodes Laboratory
- NEM 6201: Nematode Ecology
- NEM 6708: Field Plant Nematology
- NEM 6905: Problems in Nematology
- NEM 6931: Nematology Seminar
- NEM 6932: Special Topics in Nematology
- NEM 6934: Selected Studies in Nematology
- NEM 6940: Supervised Teaching
- NEM 6942: Nematode Diagnostics
- NEM 6943: Nematode Internship
- NEM 6944: Nematode Extension Internship
- NEM 6971: Research for Master's Thesis
- NEM 7979: Advanced Research
- NEM 7980: Research for Doctoral Dissertation
- PMA 5205: Citrus Pest Management
- PMA 6228: Field Techniques in Integrated Pest Management

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Medicine

College

[College of Agricultural and Life Sciences](#)

Department/School

[Entomology and Nematology Department](#)

Plant Medicine Program Information

Coordinator: Amanda C. Hodges

The Doctor of Plant Medicine (DPM) program is an intensive doctorate-level graduate level training program for students interested in plant health diagnosis and management. Requirements for the degree can be found in the [Graduate Degrees](#) section of this catalog

DPM students complete rigorous coursework and intensive internships. Only DPM students jointly enrolled in one of our discipline department M.S. or Ph.D. programs complete a thesis or dissertation. DPM students often participate in applied research within laboratory programs, and may participate in the publication of peer-reviewed scientific and extension papers. More information regarding the latest policies for the DPM program is available in the [DPM graduate handbook](#).

The DPM program is a partnership among faculty mentors and teaching faculty within the following primary departments:

- Entomology and Nematology Department
- Department of Plant Pathology
- Agronomy Department
- Horticulture Sciences Department
- Environmental Horticulture Department
- Soil and Water Sciences Department
- Food Science and Human Nutrition Department

For more information, please see the DPM website: <http://dpm.ifas.ufl.edu>.

Degrees Offered with a Major in Plant Medicine

Doctor of Plant Medicine

without a concentration

concentration in Tropical Conservation and Development

Agronomy Departmental Courses

- AGR 5215C: Integrated Field Crop Science
- AGR 5230C: Florida Grassland Agroecosystems
- AGR 5266C: Field Plot Techniques
- AGR 5277C: Tropical Crop Production
- AGR 5307: Molecular Genetics for Crop Improvement
- AGR 5321C: Genetic Improvement of Plants
- AGR 5444: Ecophysiology of Crop Production
- AGR 5511: Crop Ecology
- AGR 6233: Tropical Grassland Agroecosystems
- AGR 6237C: Research Techniques in Forage Evaluation
- AGR 6311: Population Genetics
- AGR 6322: Advanced Plant Breeding
- AGR 6325L: Plant Breeding Techniques
- AGR 6353: Cytogenetics
- AGR 6422C: Environmental Crop Nutrition
- AGR 6442C: Physiology of Agronomic Plants
- AGR 6905: Agronomic Problems
- AGR 6910: Supervised Research
- AGR 6932: Topics in Agronomy
- AGR 6933: Graduate Agronomy Seminar
- AGR 6940: Supervised Teaching
- AGR 6971: Research for Master's Thesis
- AGR 7979: Advanced Research
- AGR 7980: Research for Doctoral Dissertation
- ALS 5155: Global Agroecosystems
- IPM5305: Principles of Pesticides
- PLS 5632C: Integrated Weed Management
- PLS 5652: Advanced Weed Science
- PLS 6623: Weed Ecology
- PLS 6626: Invasive Plant Ecology
- PLS 6655: Plant/Herbicide Interaction

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Entomology and Nematology Departmental Courses

- ALS 5156: Agricultural Ecology Principles and Applications
- ALS 6046: Grant Writing
- ALS 6166: Exotic Species and Biosecurity Issues
- ALS 6935: Topics in Biological Invasions
- ENY 5006: Graduate Survey of Entomology
- ENY 5006L: Graduate Survey of Entomology Laboratory
- ENY 5031C: Insect Field Biology
- ENY 5151C: Techniques in Insect Systematics
- ENY 5160C: Survey of Science with Insects
- ENY 5164: Graduate Survey of Invertebrate Field Biology
- ENY 5212: Insects and Wildlife
- ENY 5223C: Biology and Identification of Urban Pests
- ENY 5226C: Principles of Urban Pest Management
- ENY 5332: Graduate Survey of Urban Vertebrate Pest Management

- ENY 5236: Insect Pest and Vector Management
- ENY 5241: Biological Control
- ENY 5245: Agricultural Acarology
- ENY 5405: Insects as Vectors of Plant Pathogens
- ENY 5516: Turf and Ornamental Entomology
- ENY 5566: Tropical Entomology
- ENY 5567: Tropical Entomology Field Laboratory
- ENY 5572: Advanced Apiculture
- ENY 5611: Immature Insects
- ENY 5820: Insect Molecular Genetics
- ENY 6166: Insect Classification
- ENY 6203: Insect Ecology
- ENY 6203L: Insect Ecology Laboratory
- ENY 6248: Termite Biology and Control
- ENY 6401: Insect Physiology
- ENY 6401L: Insect Physiology Laboratory
- ENY 6454: Behavioral Ecology and Systematics of Insects
- ENY 6591C: Advanced Mosquito Identification
- ENY 6593: Advanced Mosquito Biology
- ENY 6651C: Insect Toxicology
- ENY 6665: Advanced Medical and Veterinary Entomology I
- ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory
- ENY 6706: Forensic Entomology
- ENY 6706L: Forensic Entomology Laboratory
- ENY 6821: Insect Microbiology
- ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens
- ENY 6905: Problems in Entomology
- ENY 6910: Supervised Research
- ENY 6931: Entomology Seminar
- ENY 6932: Special Topics in Entomology
- ENY 6934: Selected Studies in Entomology
- ENY 6940: Supervised Teaching
- ENY 6942: Insect Diagnostics
- ENY 6943: Entomology Internship
- ENY 6944: Entomology Extension Internship
- ENY 6971: Research for Master's Thesis
- ENY 7979: Advanced Research
- ENY 7980: Research for Doctoral Dissertation
- NEM 5004C: Graduate Survey of Nematology
- NEM 5707C: Plant Nematology
- NEM 6101C: Nematode Morphology and Anatomy
- NEM 6102: Nematode Systematics and Molecular Phylogeny
- NEM 6102L: Nematode Systematics and Molecular Phylogeny Laboratory
- NEM 6103: Insect Parasitic Nematodes
- NEM 6104L: Insect Parasitic Nematodes Laboratory
- NEM 6201: Nematode Ecology
- NEM 6708: Field Plant Nematology
- NEM 6905: Problems in Nematology
- NEM 6931: Nematology Seminar
- NEM 6932: Special Topics in Nematology
- NEM 6934: Selected Studies in Nematology
- NEM 6940: Supervised Teaching
- NEM 6942: Nematode Diagnostics
- NEM 6943: Nematode Internship
- NEM 6944: Nematode Extension Internship
- NEM 6971: Research for Master's Thesis
- NEM 7979: Advanced Research
- NEM 7980: Research for Doctoral Dissertation
- PMA 5205: Citrus Pest Management
- PMA 6228: Field Techniques in Integrated Pest Management

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

Horticultural Sciences Departmental Courses

- ALS 5934: Graduate Professional Development Seminar
- HOS 5085C: Principles of Postharvest Horticulture
- HOS 5115C: Horticultural Plant Morphology and Identification
- HOS 5242: Genetics & Breeding of Vegetable Crops
- HOS 5306: Molecular Biology of Plant Hormones
- HOS 5330: Postharvest Technologies for Horticultural Crops
- HOS 5432: Advanced Nutritional Management of Ornamental Crops
- HOS 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding

- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6545: Advanced Citriculture I
- HOS 6546: Advanced Citriculture II
- HOS 6905: Problems in Horticultural Science
- HOS 6910: Supervised Research
- HOS 6931: Horticultural Science Seminar
- HOS 6932: Special Topics
- HOS 6940: Supervised Teaching
- HOS 6941: Practicum in Horticultural Science
- HOS 6971: Research for Master's Thesis
- HOS 7979: Advanced Research
- HOS 7980: Research for Doctoral Dissertation
- ORH 5026C: Advanced Annual and Perennial Gardening
- ORH 5086: Advanced Golf and Sports Turf Management
- ORH 5282: Orchid Biology and Culture
- ORH 5322C: Palm Biology and Culture
- ORH 5817C: Advanced Florida Native Landscaping
- ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

Plant Pathology Departmental Courses

- PLP 5005C: General Plant Pathology
- PLP 5102: Theory and Practice of Plant Disease Control
- PLP 5115C: Citrus Pathology
- PLP 5155: Microbiological Control of Plant Diseases and Weeds
- PLP 6656C: Fungal Biology
- PLP 6223C: Viral Pathogens of Plants
- PLP 6241C: Bacterial Plant Pathogens
- PLP 6262C: Fungal Plant Pathogens
- PLP 6291: Plant Disease Diagnosis
- PLP 6303: Host-Parasite Interactions II
- PLP 6404: Epidemiology of Plant Disease
- PLP 6502: Host-Parasite Interactions I
- PLP 6621C: Pop Genetics Microbes
- PLP 6905: Problems in Plant Pathology
- PLP 6910: Supervised Research
- PLP 6921: Colloquium in Principles of Plant Pathology
- PLP 6932: Seminar in Plant Pathology
- PLP 6940: Supervised Teaching
- PLP 6942: Professional Internship in Plant Disease Clinic
- PLP 6971: Research for Master's Thesis
- PLP 7946: Plant Pathology Internship
- PLP 7979: Advanced Research
- PLP 7980: Research for Doctoral Dissertation

Soil and Water Science Departmental Courses

- ALS 5027: Reusable Learning Objects
- ALS 5155: Global Agroecosystems
- CWR 6537: Contaminant Subsurface Hydrology
- SWS 5050: Soils for Environmental Professionals
- SWS 5050L: Soils for Environmental Professionals Laboratory
- SWS 5115: Environmental Nutrient Management
- SWS 5132: Tropical Soil Management
- SWS 5182: Earth System Analysis
- SWS 5208: Sustainable Agricultural and Urban Land Management
- SWS 5234: Environmental Soil, Water, and Land Use
- SWS 5235: South Florida Ecosystems
- SWS 5224: Environmental Biogeochemistry
- SWS 5246: Water Resource Sustainability
- SWS 5247: Hydric Soils
- SWS 5248: Wetlands and Water Quality
- SWS 5305C: Soil Microbial Ecology
- SWS 5308: Ecology of Waterborne Pathogens
- SWS 5406: Soil and Water Chemistry
- SWS 5424C: Soil Chemical Analysis
- SWS 5551: Soils, Water, and Public Health
- SWS 5605C: Environmental Soil Physics
- SWS 5716C: Environmental Pedology
- SWS 5721C: GIS in Land Resource Management

- SWS 5805: Environmental Soil and Water Monitoring Techniques
- SWS 6134: Soil Quality
- SWS 6136: Soil Fertility
- SWS 6161: Bioavailability of Soil Nutrients
- SWS 6262: Soil Contamination and Remediation
- SWS 6323: Advanced Microbial Ecology
- SWS 6325: Rhizosphere Biochemistry
- SWS 6366: Biodegradation and Bioremediation
- SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6722: Soil-Landscape Modeling
- SWS 6905: Special Problems
- SWS 6910: Supervised Research
- SWS 6931: Seminar
- SWS 6932: Topics in Soils
- SWS 6940: Supervised Teaching
- SWS 6971: Research for Master's Thesis
- SWS 7979: Advanced Research
- SWS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Family, Youth, and Community Sciences Department

Interim Chair: Tracy Irani

Graduate Coordinator: Larry F. Forthun

Complete faculty listing by department: [Follow this link](#)

The FYCS graduate program is an interdisciplinary applied social science program that prepares students for advanced degrees (e.g., Ph.D.) and careers in such areas as family and youth services, Extension and community-based education, community development and nonprofit management, program planning and evaluation, and social policy. Graduates find careers in both the public and private sectors including:

- Child and Youth Development in areas such as juvenile justice, dropout prevention programs, recreational and camp programs, and youth ministry;
- Community Development Practice in local and regional government, private nonprofit organizations (such as chambers of commerce, local development corporations, and local, national and international foundations) and citizen's groups;
- Nonprofit Organizational Management, such as management of community based, nonprofit organizations;
- Family and Social Services, such as family preservation programs, assistance for abused and neglected children and other public assistance programs; and
- Cooperative Extension Service in such areas as youth development, family and consumer sciences and community development.

Contact the graduate coordinator for more information.

Other

Family, Youth, and Community Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Family, Youth, and Community Sciences Department](#)

Master of Science in Family, Youth and Community Sciences

The Master of Science in FYCS offers two degree options—a thesis and a non-thesis. Both options prepare students for advanced professional positions. FYCS students in either option may complete the FYCS Concentration in Nonprofit Organizational Development, the Certificate in Nonprofit Organizational Development, or the Certificate in Personal & Family Financial Planning.

Thesis Option prepares students to conduct independent research needed to develop science-based solutions to problems, issues and policies that affect families, youth and communities. Students develop expertise in a subject matter area directly relevant to the problem or need they want to address with the thesis research.

Non-Thesis Project Option provides the student with a broad base of knowledge and skills in the discipline. Students complete a non-thesis project determined in consultation with the supervisory committee. Projects vary in nature and may include directed research, program evaluation, or other empirically-based projects.

The Minor in Family, Youth and Community Sciences provides students with knowledge about the theories and body of research that explain how families, youth and communities develop and interact. The minor consists of nine hours of study.

The Minor in Organizational Leadership for Nonprofits provides students with an understanding of how to develop not-for-profit organizations to address problems facing families, youth and communities. The minor consists of six hours of study (nine hours for doctoral students).

Concentration in Nonprofit Organizational Development The nonprofit organizational development concentration will prepare students to work with tax exempt nonprofit organizations and informal community based groups that serve a charitable purpose for the public good. The concentration includes the study of the historical development of nonprofits in the US that enable students to understand the unique aspects of nonprofits and their growing importance and impact on our society. It provides students with a knowledge base for aspiring nonprofit organizational leaders and proven competencies for practicing professionals in the nonprofit sector.

The Graduate Certificate in Nonprofit Leadership will prepare students to work with all 501 (c) nonprofit organizations, tax exempt and others. Courses provide an in depth understanding for developing and sustaining an efficient and effective nonprofit organization. Core competencies in governance, strategic planning, fund raising, and risk management are included as well as other tools.

The Graduate Certificate in Personal and Family Financial Planning The certificate addresses the Certified Financial PlannerTM (CFP) Board of Standards education requirement for sitting for the CFP examination, including insurance, personal investing, retirement planning, tax planning, behavioral finance, financial planning practice management and foundational family economic theories. The CFP designation is the leading standard in financial planning and our program is registered with the CFP Board of Standards enabling students to sit for the exam upon completion of the certificate.

Degrees Offered with a Major in Family, Youth, and Community Sciences

Master of Science

without a concentration

concentration in Community Studies

concentration in Family and Youth Development

concentration in Nonprofit Organization Development

Courses

- FYC 5008: Personal and Family Tax Planning
- FYC 5009: Personal and Family Insurance Planning
- FYC 5106: Personal and Family Retirement and Estate Planning
- FYC 5935: Personal and Family Financial Planning Capstone
- FYC 6020: Principles of Family, Youth, and Community Sciences
- FYC 6111: Families and Violence
- FYC 6117: Military Families in Community Context
- FYC 6131: Ethics for FYCS Practitioners
- FYC 6207: Adolescent Problematic Behavior
- FYC 6221: Grant Proposals for Community-Based Organizations

- FYC 6222: Parenting and Child Relationships
- FYC 6223: Promoting Positive Youth Development
- FYC 6224: Resilience and Positive Youth Development
- FYC 6230: Theories of Youth and Family Development
 - FYC 6232
- FYC 6234: Theoretical Approaches to Youth Programming
- FYC 6302: Sustainable Community Development
- FYC 6320: Community Development and Civic Engagement
- FYC 6330: Theories of Community Development
- FYC 6331: Involving Youths in Community Issues
- FYC 6412: Historical Foundations of Philanthropy
- FYC 6421: Nonprofit Organizations
- FYC 6422: Policy Issues and Case Studies in Nonprofit Organizations
- FYC 6423: Non-Governmental Organizations
- FYC 6424: Fund Raising for Community Nonprofit Organizations
- FYC 6425: Risk Management in Nonprofit Organizations
- FYC 6620: Program Planning and Evaluation for Human Service Delivery
- FYC 6662: Public Policy and Human Resource Development
- FYC 6800: Scientific Reasoning and Research Design
- FYC 6802: Advanced Research Methods for Family, Youth, and Community Sciences
- FYC 6901: Problems in Family, Youth, and Community Sciences
- FYC 6912: Nonthesis Project in Family, Youth, and Community Sciences
- FYC 6932: Topics, in Family, Youth, and Community Sciences
- FYC 6933: Seminar in Human Resource Development
- FYC 6934: Professional Internship/Practicum in Family, Youth, and Community Sciences
- FYC 6971: Research for Master's Thesis

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food and Resource Economics Department

[College of Agricultural and Life Sciences](#)

Interim Chair: Rodney L. Clouser

Acting Graduate Coordinator: Sherry Larkin

Complete faculty listing by department: [Follow this link](#)

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

The Department participates in programs with the Center for Latin American Studies, the Center for African Studies, the Center for Tropical Agriculture, the School of Natural Resources and Environment, the College of Law, and the Florida Sea Grant College Program.

The Department programs reflects the diversity of Florida's agriculture which has more than fifty major commodities. With over thirty faculty involved in a full range of research, extension, and teaching programs in areas including Agricultural Marketing, International Trade, Policy, Production/Farm Management, International Development, Marine Economics, Natural Resource and Environmental Economics, Community/Regional Development and Labor Economics. In addition to the main campus location, the department has faculty at research centers throughout the state.

Several members of the faculty have garnered international reputations in diverse fields such as trade policy, generic advertising, citrus economics, sugar policy, business retention and expansion, leadership development, consumer attitudes towards genetically modified food, and dairy marketing.

The Department offers a combined bachelor's/master's degree program for the Master of Science and Master of Science with Concentration in Agribusiness. Contact the Graduate Program Office in 1170 McCarty Hall for information.

For more information, please see the program pages below, and see our website: <http://www.fred.ifas.ufl.edu>.

Other

Food and Resource Economics

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food and Resource Economics Department](#)

Food and Resource Economics Program Information

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB.) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The **Ph.D. in Food and Resource Economics** is designed to provide the student with rigorous training in economics, statistics, and applied quantitative techniques. Each student is exposed to core theory and to fields of specialization with the purpose to prepare the candidate for a professional career in post-secondary education, government, non-governmental organizations, private business, and international agencies.

The **Master of Agribusiness** is designed specifically for students with no academic background in economics or agricultural economics. The program is made up of students from diverse backgrounds including Accounting, Agricultural Education and Communication, Agricultural Operations Management, Animal Science, Business Administration, Finance, Food Science, Horticulture, Management, Turfgrass, and Wildlife Ecology and Conservation. The graduate coursework complements the student's undergraduate background and prepare them for careers in financial analysis, sales, management, marketing, human resources, policy, production, and entrepreneurial pursuits working in private industry, international firms, non-profit organizations and government.

The **Master of Science** in the Food and Resource Economics Department provides broad training in applied economics as it relates to food production, marketing and trade, regional economics, and natural resource issues. Students are taught to use basic economic principles and quantitative methods to address empirical problems. The core consists of graduate level courses in microeconomics, policy, econometrics, statistics and survey research methods. Many students elect to continue their education with a Ph.D. degree while others opt for employment with government agencies, non-governmental organizations, foreign agencies, private consulting firms, or corporations.

The **Master of Science with Concentration in Agribusiness** is designed specifically for students with an educational background in economics and agricultural economics. The quantitative courses include microeconomics, policy, econometrics and survey research methods and provide solid economic theory to prepare students for careers in financial analysis, sales, management, marketing, human resources, policy, production, and entrepreneurial pursuits working in private industry, international firms, non-profit organizations and government.

For more information, please see our website: <http://www.fred.ifas.ufl.edu>.

Degrees Offered with a Major in Food and Resource Economics

Doctor of Philosophy

without a concentration

with a concentration in Hydrologic Sciences

with a concentration in Toxicology

with a concentration in Tropical Conservation and Development

Master of Agribusiness

without a concentration

with a concentration in Tropical Conservation and Development

Master of Science

without a concentration

with a concentration in Agribusiness

with a concentration in Hydrologic Sciences

with a concentration in Toxicology

with a concentration in Tropical Conservation and Development

Courses

- AEB 5167: Economic Analysis in Small Farm Livelihood Systems
- AEB 5188: Economics of Agribusiness Decisions
- AEB 5326: Agribusiness Financial Management
- AEB 5516: Quantitative Methods in Agribusiness Decisions
- AEB 5757: Strategic Agribusiness Human Resource Management
- AEB 6106: Microeconomic Principles and Analysis
- AEB 6139: Strategic Agribusiness Management
- AEB 6145: Agricultural Finance
- AEB 6183: Agribusiness Risk Management
- AEB 6225: Public Policy and the Agribusiness Firm
- AEB 6301: Food Wholesale and Retail Marketing
- AEB 6363: Agricultural Marketing
- AEB 6385: Management Strategies for Agribusiness Firms
- AEB 6533: Static and Dynamic Optimization Models in Agriculture
- AEB 6553: Elements of Econometrics
- AEB 6592: Mathematical Programming for Economic Analysis
- AEB 6675: International Agribusiness Marketing
- AEB 6815: Science and Research Methodology
- AEB 6817: Survey Research Methods for Economists
- AEB 6905: Problems in Food and Resource Economics
- AEB 6910: Supervised Research
- AEB 6921: Workshop in Food and Resource Economics I
- AEB 6933: Special Topics
- AEB 6934: Workshop in Food and Resource Economics II
- AEB 6942: Advanced Applications in Agribusiness Experience
- AEB 6971: Research for Master's Thesis
- AEB 7108: Microeconomic Theory II
- AEB 7174: Economic Coordination and Organizational Behavior in Agribusiness
- AEB 7182: Agricultural Risk Analysis and Decision Making
- AEB 7184: Production Economics
- AEB 7240: Macroeconomic Theory in Open Economies II
- AEB 7373: Consumer Demand and Applied Analysis
- AEB 7453: Natural Resource and Environmental Economics
- AEB 7483: Seminar in Natural Resource and Environmental Economics
- AEB 7571: Econometric Methods I
- AEB 7572: Econometric Methods II
- AEB 7645: Economic Development and Agriculture
- AEB 7979: Advanced Research

- AEB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food Science and Human Nutrition Department

[College of Agricultural and Life Sciences](#)

Chair: Susan S. Percival

Graduate Coordinators: Harry S. Sitren (M.S. in Food Science and Human Nutrition / Ph.D. in Food Science), James F. Collins (Ph.D. in Nutritional Sciences)

Complete faculty listing by department: [Follow this link.](#)

The Food Science and Human Nutrition Department (FSHN) is one of the world's largest combined academic programs where food science, nutritional sciences, and dietetics are all studied within one department. FSHN has nearly 30 full-time faculty members, 80 graduate assistants, and close to 1,000 undergraduate students. Our programs are accredited by the [Institute of Food Technologists](#) (IFT) and the [Academy of Nutrition and Dietetics](#). After completing undergraduate degrees, our students typically move on to professional employment, further education or training in food or nutrition graduate programs, or on to professional school programs. We have a strong record of excellent placement of our graduate students in industry and professional organization employment positions, as faculty members at colleges and universities, or in postdoctoral training experiences.

Our faculty has trained at institutions from around the world; they have been widely successful in their teaching, research, and extension efforts. Throughout our programs in food science, nutrition, and dietetics, our faculty is recognized nationally and internationally as experts in their respective fields.

The Food Science and Human Nutrition Department offers programs leading to the degrees of Master of Science in Food Science and Human Nutrition, Doctor of Philosophy in Food Science, and Doctor of Philosophy in Nutritional Sciences (offered under the auspices of the [Center for Nutritional Sciences](#)). Minimum requirements for these degrees are located in the Graduate Degrees section of this catalog.

For more information please click the links to the program pages below, or see our website: <http://fshn.ifas.ufl.edu>.

Other

Food Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Food Science Program Information

The Ph.D. program in Food Science is a multidisciplinary program consisting of Food Chemistry, Food Processing and Engineering, and Food Microbiology and Safety. Students are expected to obtain a breadth of food science knowledge by taking courses in all program areas with the majority of courses stressing one of the three areas of emphasis.

For further information, please see our website at: <http://fshn.ifas.ufl.edu>.

Doctor of Philosophy

without a concentration

concentration in Toxicology

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar

- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food Science and Human Nutrition

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Food Science and Human Nutrition Program

The M.S. program offers tracks in food science and in nutritional sciences. The Institute of Food Technologists and the American Society for Nutrition recognize these concentrations. The department also offers a combined Master of Science-Dietetics Internship (MS-DI) program accredited by the Commission on Accreditation for Dietetic Education (CADE). Students who complete this program are eligible to take the national registration examination to become a registered dietitian. Only graduates from a CADE accredited/approved Didactic Program in Dietetics are eligible for the MS-DI program.

Specific areas of study include nutritional biochemistry/molecular biology, nutrient function/metabolism, medical nutrition therapy/dietetics, nutritional immunology, food processing/engineering food chemistry/biochemistry, and food safety/microbiology/quality.

Applicants must have an adequate background in physical and biological sciences and food science or nutritional sciences. Students with specific deficiencies will be required to take prerequisite courses.

For further information, please see our website at: <http://fshn.ifas.ufl.edu>.

Degrees Offered with a Major in Food Science and Human Nutrition

Master of Science

without a concentration

concentration in Nutritional Sciences

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods

- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Nutritional Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Nutritional Sciences Program

The field of nutritional science has unprecedented public interest. This is fostered by evolving links between diet and health, and the impact of one's individual genetic makeup on nutrient utilization. The Ph.D. degree program in Nutritional Sciences is interdisciplinary, with participating CALS, COM, CLAS, and CVM faculty directing research of doctoral students, where the full spectrum of Nutritional Sciences is available. Emphasis areas include basic nutritional sciences, biochemistry and molecular biology, genetics, immunology, physiology, clinical nutrition, microbiology, and biostatistics.

Students are admitted to the program after the bachelor's degree or a master's degree in nutritional sciences or a related field. Applicants should have a strong undergraduate background in biological sciences and chemistry. Deficiencies may be made up during the first year of graduate study.

Additional information can be found at <http://nutritionalsciences.centers.ufl.edu>.

For additional information, e-mail Dr. Mitchell D. Knutson, Director at mknutson@ufl.edu or Dr. James F. Collins, Graduate Coordinator at jfcollins@ufl.edu.

Degrees Offered with a Major in Nutritional Sciences

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Nutritional Sciences Program Core Courses

[BCH 6206: Advanced Metabolism](#)

[HUN 6938: Nutritional Sciences Seminar](#)

[STA 6166: Statistical Methods in Research I](#)

[HUN 6301: Nutritional Aspects of Lipid Metabolism](#)

[HUN 6305: Nutritional Aspects of Carbohydrates](#)

[HUN 6321: Proteins and Amino Acids in Nutrition](#)

[HUN 6331: Vitamins in Human Nutrition](#)

[HUN 6356: Minerals in Nutrition](#)

Additional Course Offerings

The following courses may be taken to contribute to the overall degree award requirements.

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research

- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Horticultural Sciences Department

[College of Agricultural and Life Sciences](#)

Chairs : K.M. Folta (Interim Chair, Horticultural Sciences) and W. Mackay (Environmental Horticulture)
Graduate Coordinator: G. A. Moore (Horticultural Sciences) and L. Trenholm (Environmental Horticulture)

Complete faculty listing: [Follow this link.](#)

The Horticultural Sciences Department Graduate Program at the University of Florida has a wide array of opportunities for graduate study.

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

The Horticultural Sciences Department offers a combined bachelor's/master's degree program. Please contact the graduate coordinator for information.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest. Details about the program and how to apply are listed on their website: <http://hos.ufl.edu>.

Other

Horticultural Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Horticultural Sciences Department](#)

Environmental Horticulture Department

Horticultural Sciences Program Information

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest.

Requirements:

A strong undergraduate or graduate background in horticultural, biological, agronomic, or other disciplines in the life sciences and undergraduate coursework in chemistry, physics, and mathematics. A prospective graduate student need not have majored in horticulture as an undergraduate or master's student; however, students with curriculum deficiencies are required to take prerequisite subjects during the first year of graduate study. Undergraduate courses taken to correct curriculum deficiencies do not count for graduate program credit.

Specializations in the HS department focus on vegetable and fruit crops and include

- Plant Breeding and Genetics
- Crop Production and Nutrient Management
- Postharvest Biology
- Organic Sustainable Agriculture
- Weed Science
- Physiology and Biochemistry
- Plant Molecular Biology
- Protected Agriculture

Numerous HS and HSE faculty participate in the interdisciplinary Plant Molecular and Cellular Biology Program. Students interested in molecular biology/biotechnology may pursue molecular-oriented studies in any listed specialization. Students interested in full specialization in molecular and related disciplines should contact the Plant Molecular and Cellular Biology interdisciplinary program for specific requirements.

Specializations in the HSE department:

- Breeding and Genetics
- Restoration Ecology
- Floriculture
- Foliage Production
- Plant anatomy and development
- Plant Biotechnology
- Plant Restoration Conservation Biotechnology
- Stress Physiology
- Taxonomy
- Tissue Culture
- Turfgrass Science
- Woody Plants

Graduate School Degree Program Requirements Master of Science (thesis option):

Students must earn at least 30 credits as a graduate student at UF. No more than 9 of the 30 credits (earned with a grade of A, B+, or B) may be transferred from institutions approved for this purpose by the Dean of the Graduate School. A minimum of 12 credits is required in the Horticultural Sciences major; additionally, a maximum of 6 credits in HOS 6971- Master's Research - may be counted toward the total credits. [See here for information on M.S. graduate degrees.](#)

A minor may be chosen in an academic unit other than the major. If a minor is chosen, at least 6 credits of course work are required in the minor field. Two 6-credit minors may be taken with the major academic unit's permission. A 3.00 (truncated) GPA is required for minor credit. In addition, a representative from the department in which the minor is being received must be on the supervisory committee.

Master of Science non-thesis option:

This option offers additional training beyond the bachelor's degree in a horticultural specialization. Essential elements of this program include a program of courses and a comprehensive written and/or final oral qualifying examination. There is no thesis requirement. A minimum of 30 credit hours of course work is required. Courses taken for program credit must be numbered 5000 or higher with at least 15 of these credits in the Horticultural Science major. With supervisory committee and college dean approval, 6 hours of 3000- or 4000-level undergraduate courses, taught outside the major department, may count toward the minimum requirements for the degree. [Click for information on all graduate degrees.](#)

A minor may be chosen in an academic unit other than the major. If a minor is chosen, at least 6 credits of work are required in the minor field. Two 6-credit minors may be taken with the major academic unit's permission. A 3.00 (truncated) GPA is required for minor credit. In addition, a representative from the department in which the minor is being received must be on the supervisory committee.

Doctor of Philosophy:

The Doctor of Philosophy is a research degree and is granted on evidence of general proficiency, distinctive attainment in a special field, and ability to conduct independent investigation as demonstrated in a dissertation presenting original research with a high degree of literary skill. Consequently, doctoral programs are more flexible and varied than those leading to M.S. degree programs. The Ph.D. degree requires at least 90 credits beyond the bachelor's degree, although specific course requirements vary from field to field and from student to student. Up to 30 credits of master's degree may be transferred to a doctoral program. Any credits counted from an M.S. degree program must have been earned within the previous seven years (or by petition). The Graduate Council does not specify the courses required for the Ph.D. degree.

General requirements for the program include

- a clear objective for research
- approval of the student's entire supervisory committee
- an appropriate number of credits of doctoral research

[Click for information on all graduate degrees.](#)

Minor: With the supervisory committee's approval, the student may choose one or more minor fields. Minor work may be completed in any academic unit outside the major, if approved for M.S. or doctoral programs listed in this catalog. The collective grade for courses included in a minor must be "B" (3.00) or higher. If one minor is chosen, the supervisory committee member representing the minor suggests 12 to 24 credits of courses numbered 5000 or higher as preparation for a qualifying examination. Part of this credit may have been earned in the M.S. degree program. If two minors are chosen, each must include at least 8 credits. Competence in the minor area is demonstrated by written examination by the minor academic unit, or by the oral qualifying examination. Minor course work at the doctoral level may include courses in more than one academic unit; if the objective of the minor is clearly stated and the combination of courses is approved by the Graduate School (this approval is not required for a minor in one academic unit). Further requirements for the Master of Science and the Doctor of Philosophy

degrees are listed under those headings in the General Information section of this catalog.

Degrees Offered with a Major in Horticultural Sciences

Doctor of Philosophy

without a concentration

concentration in Environmental Horticulture

concentration in Horticultural Sciences

concentration in Toxicology

Master of Science

without a concentration

concentration in Environmental Horticulture

concentration in Horticultural Sciences

Horticultural Sciences Program Courses

- ALS 6935: Topics in Biological Invasions
- BCH 5045: Graduate Survey of Biochemistry
- BOT 6935: Special Topics
- HOS 6934: Professional Seminar Preparation
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

Additional Course Offerings

The following courses may be taken to contribute to the overall degree award requirements.

Horticultural Sciences Departmental Courses

- ALS 5934: Graduate Professional Development Seminar
- HOS 5085C: Principles of Postharvest Horticulture
- HOS 5115C: Horticultural Plant Morphology and Identification
- HOS 5242: Genetics & Breeding of Vegetable Crops
- HOS 5306: Molecular Biology of Plant Hormones
- HOS 5330: Postharvest Technologies for Horticultural Crops
- HOS 5432: Advanced Nutritional Management of Ornamental Crops
- HOS 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding
- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6545: Advanced Citriculture I
- HOS 6546: Advanced Citriculture II
- HOS 6905: Problems in Horticultural Science
- HOS 6910: Supervised Research
- HOS 6931: Horticultural Science Seminar
- HOS 6932: Special Topics
- HOS 6940: Supervised Teaching
- HOS 6941: Practicum in Horticultural Science
- HOS 6971: Research for Master's Thesis
- HOS 7979: Advanced Research
- HOS 7980: Research for Doctoral Dissertation
- ORH 5026C: Advanced Annual and Perennial Gardening
- ORH 5086: Advanced Golf and Sports Turf Management
- ORH 5282: Orchid Biology and Culture
- ORH 5322C: Palm Biology and Culture
- ORH 5817C: Advanced Florida Native Landscaping
- ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics

- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Microbiology and Cell Science Department

Chair: E. Triplett.

Graduate Coordinator: Tony Romeo.

Complete faculty listing by department: [Follow this link.](#)

Graduate study is offered leading to the Master of Science and Doctor of Philosophy degrees in microbiology and cell science, with emphasis in one or more of the disciplines of biochemistry, cell biology, and microbiology.

Requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog and also at the Department webpage: <http://microcell.ufl.edu/>.

Instruction and guidance are collaborative among faculty in the Colleges of Agricultural and Life Sciences, Liberal Arts and Sciences, and Medicine.

Research spans broad areas in the cellular and molecular aspects of bacterial, plant, and animal life functions: Areas of research include microbial biochemistry, biotechnology; biomass conversion; genetic and metabolic regulation; environmental microbiology; cell biology; molecular biology; molecular genetics; genomics and bioinformatics; immunology; virology; parasitology, host-pathogen interactions; cellular ultrastructure.

Prerequisites for admission to graduate study, in addition to those of the Graduate School, are a broad educational background including mathematics, physics, and chemistry through organic, analytical, and physical chemistry; basic courses in biology, botany, and/or zoology; and at least one course in microbiology and biochemistry. An undergraduate major in biochemistry, physical or chemical science, engineering, or general biology may be an acceptable alternative to a degree in microbiology or cell science. Receipt of an advanced degree requires detailed knowledge in microbiology, biochemistry, and chemistry; undergraduate deficiencies may necessitate additional course work prior to entry into the graduate program.

In addition, the Microbiology and Cell Science Department also offers a combined B.S./M.S. program that allows qualified students to earn both the Bachelor's and Master's degrees with 12 credit hours of jointly counted course work. This program is considered a "4/1" because students may be awarded both degrees within a five-year period. For further information on this program, follow this link: <http://microcell.ufl.edu/graduate-program/combined-degree-program/>.

Other

Microbiology and Cell Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Microbiology and Cell Science Department](#)

Degrees Offered with a Major in Microbiology and Cell Science

Doctor of Philosophy

without a concentration

concentration in Medical Microbiology and Biochemistry

concentration in Toxicology

Master of Science

without a concentration

concentration in Medical Microbiology and Biochemistry

Courses

- MCB 5205: Microbiology of Human Pathogens
- MCB 5252: Microbiology, Immunology, and Immunotherapeutics
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 5408: Anaerobic Microbiology and Biotechnology
- MCB 5458: Energy Transformation in Microorganisms
- MCB 5505: General Virology
- MCB 6317: Molecular Biology of Gene Expression
- MCB 6318: Comparative Microbial Genomics
- MCB 6355: Microbial/Host Defense
 - MCB 6358
- MCB 6409: Microbial Cell Structure and Function
- MCB 6417: Microbial Metabolism and Energetics
- MCB 6457: Metabolic Regulation
- MCB 6465: Microbial Metabolic Engineering
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- MCB 6772: Advanced Topics in Cell Biology
- MCB 6905: Experimental Microbiology
- MCB 6910: Supervised Research
- MCB 6930: Seminar
- MCB 6937: Special Topics in Microbiology
- MCB 6940: Supervised Teaching
- MCB 6971: Research for Master's Thesis
 - MCB 6xxx
- MCB 7922: Journal Colloquy
- MCB 7979: Advanced Research
- MCB 7980: Research for Doctoral Dissertation
- PCB 5136L: Techniques in Microbial and Cell Biology
- PCB 5235: Immunology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Complete faculty listing by department: [Follow this link.](#)

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Other

Plant Molecular and Cellular Biology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Plant Molecular and Cellular Biology Department](#)

Plant Molecular and Cellular Biology Program Information

Director: Gloria A. Moore

Graduate Coordinator: Matias Kirst

Plant Molecular and Cellular Biology (PCMB) is an interdisciplinary and interdepartmental graduate degree program that emphasizes understanding the molecular and cellular mechanisms that mediate plant development, adaptation, and evolution. Students can pursue an M.S. or a Ph.D. degree through the PCMB program. All students complete core courses in Advanced Genetics, Plant Molecular Biology and Genomics, Plant Cellular and Developmental Biology, and Plant Biochemistry. In addition to the core classes, students can select from a variety of courses in biochemistry, molecular biology, physiology, breeding, genetics, evolution, microbiology, and plant pathology.

New students are exposed to a variety of faculty and experimental systems while they rotate through several laboratories during their first two semesters before selecting an adviser and dissertation research area. Both M.S. and Ph.D. students take four required courses: [PCB 5065](#) Advanced Genetics, [PCB 5530](#) Plant Molecular Biology and Genomics, [PCB 6528](#) Plant Cell and Developmental Biology and [BOT 6935](#) Plant Biochemistry, as well as journal colloquium classes ([PCB 7922](#) Journal Colloquium). Additional elective courses are taken after approval by the student's supervisory committee. For additional information see <http://pmcb.ifas.ufl.edu>.

Successful candidates should have a strong interest in plant molecular and cellular mechanisms controlling development, metabolism, adaptation, and evolution. Applicants typically have a B.S. or M.S. in the agricultural, forestry, biological or chemical sciences with advanced undergraduate coursework in genetics, molecular and cellular biology, and biochemistry. However, outstanding students from a broad range of science disciplines are actively considered.

Degrees Offered with a Major in Plant Molecular and Cellular Biology

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Molecular and Cellular Biology Courses

- BOT 6935: Special Topics
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6910: Supervised Research

- PCB 6937: Special Topics in Plant Molecular and Cellular Biology
- PCB 6971: Research for Master's Thesis
- PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Pathology Department

Chair: R. Loria

Graduate Coordinators: J. Jones

Complete faculty listing by department: [Follow this link.](#)

The Department of Plant Pathology offers graduate studies leading to the Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees. The Department also participates in the Doctor of Plant Medicine interdisciplinary professional degree.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Plant Pathology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Plant Pathology Department](#)

Plant Pathology Program Information

A student may pursue studies in one of several basic areas of plant pathology. These areas include fungal plant pathology, plant bacteriology, plant virology, diagnostics, control, and also molecular and biochemical aspects of host-pathogen systems, biological control of pathogens and weeds, epidemiology, etiology, genetics of host-pathogen systems, soil microbiology, and pathogen taxonomy. In Florida, the variety of cultivated plants, coupled with an environment ideal for plant disease development, offers the student opportunities to study diseases of many crops as they develop. First-hand knowledge can be gained of diseases of field, fruit, ornamental, pasture, range, turf, and vegetable crops in temperate, subtropical, and tropical environments. Students who anticipate study in plant pathology at the University of Florida should include in their undergraduate programs training in botany, chemistry (through biochemistry), genetics, and microbiology.

Courses in nematology are offered by the Department of Entomology and Nematology.

Degrees Offered with a Major in Plant Pathology

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Pathology Departmental Courses

- PLP 5005C: General Plant Pathology
- PLP 5102: Theory and Practice of Plant Disease Control
- PLP 5115C: Citrus Pathology
- PLP 5155: Microbiological Control of Plant Diseases and Weeds
- PLP 6656C: Fungal Biology
- PLP 6223C: Viral Pathogens of Plants
- PLP 6241C: Bacterial Plant Pathogens
- PLP 6262C: Fungal Plant Pathogens
- PLP 6291: Plant Disease Diagnosis
- PLP 6303: Host-Parasite Interactions II
- PLP 6404: Epidemiology of Plant Disease
- PLP 6502: Host-Parasite Interactions I
- PLP 6621C: Pop Genetics Microbes
- PLP 6905: Problems in Plant Pathology
- PLP 6910: Supervised Research
- PLP 6921: Colloquium in Principles of Plant Pathology
- PLP 6932: Seminar in Plant Pathology
- PLP 6940: Supervised Teaching
- PLP 6942: Professional Internship in Plant Disease Clinic
- PLP 6971: Research for Master's Thesis
- PLP 7946: Plant Pathology Internship
- PLP 7979: Advanced Research
- PLP 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

School of Forest Resources and Conservation

[College of Agricultural and Life Sciences](#)

Director: T. L. White.

Graduate Coordinator: T.V. Stein

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Joint program: Students may simultaneously earn a juris doctorate from the College of Law and a graduate degree (M.F.R.C., M.S., or Ph.D.) in Forest Resources and Conservation.

Combined programs: The School offers a combined bachelor's/master's degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings of 1 semester. Ph.D. students may pursue a co-major with the Department of Statistics (see below).

Concentration in geomatics: Students completing 15 or more credits with an SUR designation, as part of an SFRC graduate degree, may earn the concentration in geomatics. Geomatics is the collection, analysis, and management of spatial information and includes such fields as surveying, mapping, land tenure, cadastral systems, geographic information systems, and remote sensing.

Concentration in ecological restoration: This concentration is available to M.S. non-thesis students. To earn this concentration a student must complete Ecosystem Restoration Principles and Practice and four of the following courses: Ecological Distribution and Management of Invasive Plants, Ecology and Restoration of Invaded Ecosystems, Ecology and Restoration of Longleaf Pine Ecosystem, Watershed Restoration and Management, Natural Resource Policy and Administration, or Agroforestry in the Southeastern US. Ecological restoration seeks to return ecosystems to a close approximation of condition before a disturbance.

Statistics co-major: Ph.D. students with the School may elect the co-major offered jointly with the Department of Statistics. Students focusing on forest genetics, tree improvement, and other statistics-intensive aspects of natural resource management are potential candidates for this option.

Certificates: The School administers the Graduate Certificate in Agroforestry, and SFRC students regularly earn certificates in Geographic Information Systems and in Environmental Education and Communication. Requirements are described under *Interdisciplinary Graduate Certificates and Concentrations* in this catalog.

For additional information, please visit the School's web page at <http://sfrc.ufl.edu>.

For details on what terms courses will be offered, please visit <http://sfrc.ufl.edu/gradcourses.html>.

Other

Fisheries and Aquatic Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Forest Resources and Conservation](#)

Fisheries and Aquatic Sciences Program

Director: T. L. White

Graduate Coordinator: William J. Lindberg

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas.

The School's program in Fisheries and Aquatic Sciences leads to the Master of Science, Master of Fisheries and Aquatic Sciences (nonthesis), and Doctor of Philosophy degrees with a program in Fisheries and Aquatic Sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Fisheries and Aquatic Sciences program also offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

The School of Forest Resources and Conservation's program in Fisheries and Aquatic Sciences conducts research, teaching, and extension programs in four broad areas:

- Sustainable fisheries
- Aquaculture
- Aquatic animal health
- Conservation and management of aquatic environments

Faculty encompass both freshwater and marine environments, as well as managed aquaculture systems. Collaborators include the UF College of Veterinary Medicine, National Biological Survey, National Marine Fisheries Service, Harbor Branch Oceanographic Institute, Mote Marine Laboratory, the US Geologic Survey, the Florida Fish and Wildlife Conservation Commission, and others. Academic programs are structured to emphasize direct engagement of students with faculty. Further information, including specific degree options, faculty biographies, and information on the admissions process, is available at: <http://sfrc.ufl.edu>.

Degrees Offered with a Major in Fisheries and Aquatic Sciences

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

Master of Fisheries and Aquatic Sciences

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS

- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycoogy
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study

- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Forest Resources and Conservation

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Forest Resources and Conservation](#)

Forest Resources and Conservation Program Information

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas.

The SFRC offers graduate programs leading to the Master of Forest Resources and Conservation (professional, non-thesis), Master of Science (thesis and non-thesis), and Doctor of Philosophy degrees in Forest Resources and Conservation. The Master of Science non-thesis degree may be taken entirely online. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Forest Resources and Conservation program prepares students to work with the ecological, economic, and social aspects of natural resources, including the management of spatial information gathered through traditional surveying as well as remote sensing. Faculty have a wide variety of specializations, including fire ecology, land tenure, tree genetics, recreation management, environmental education, geographic information systems, silviculture, forest economics, and environmental policy. Further information, including specific degree options, faculty biographies, and information on the admissions process, is available at: <http://sfrc.ufl.edu>.

Degrees Offered with a Major in Forest Resources and Conservation

Doctor of Philosophy

without a concentration

concentration in Agroforestry

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Hydrologic Sciences

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Toxicology

concentration in Wetland Sciences

Master of Forest Resources and Conservation

without a concentration

concentration in Agroforestry

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Agroforestry

concentration in Ecological Restoration

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Hydrologic Sciences

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences

- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

School of Natural Resources and Environment

Graduate coordinator: T. Frazer

Complete faculty listing by department: [Follow this link.](#)

The University of Florida School of Natural Resources and Environment offers interdisciplinary coursework in the basic and applied science of ecology, the related social sciences, and sustainability, leading to M.S. and Ph.D. degrees. Choose from about 450 courses, 280 faculty advisors, and 44 participating departments. Research areas of ecology graduate students range across natural resource ecology, environmental policy and management, and sustainable development.

Environmental problems are fundamentally human problems and should be understood in terms of human motivations and actions in a biophysical context. Their solution requires holistic thinking about dynamic ecological systems and the social, economic, and political forces driving human action. To this end, the goal of the Interdisciplinary Ecology graduate program is to provide advanced training in ecosystems thinking and the main theories and methodologies of the biophysical and social sciences to foster integrative approaches to complex real-world problems. Interdisciplinary Ecology students are intensely interested in the sustainability problem, and they welcome the challenge of addressing it through more than one traditional discipline.

Other

Interdisciplinary Ecology

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Natural Resources and Environment](#)

Interdisciplinary Ecology Program

Director of Academic Programs and Graduate Coordinator: T. Frazer

Graduate students are advised by one of the 280 members of the School's affiliate faculty and have a supervisory committee with interdisciplinary composition. For the list of Graduate Faculty, see <http://sfrc.ufl.edu/fish/people/>. Graduate students are hosted in one of 44 participating academic units.

The School offers a program of study leading to the Master of Science (thesis and non-thesis options), and Doctor of Philosophy degrees in interdisciplinary ecology. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. The course work requirements and curriculum are described in more detail at <http://www.snre.ufl.edu/>. Choices among 450 courses are custom-fitted by the student and the supervisory committee to meet the student's specific needs and interests.

The Interdisciplinary Ecology program views the social-ecological system as the proper framework for addressing the full scope of complex, adaptive systems comprising humans in the natural world. The degree program challenges students to understand both natural and human dynamics to obtain a holistic view and to foster integration of human activities with natural resources and the environment. The learning outcomes of the program are to develop a thorough understanding of the components, processes, and interactions of the social-ecological system, competence in scientific research methodologies, and experience in professional interaction with peers.

The degree programs combine 1) course work in the science of ecology and additional natural and social sciences; and 2) competence in a recognized discipline in one of these fields of study. The former is achieved with a core-course and distribution requirement and the latter by extra course work for the master's and a concentration for the doctoral degree. A thesis or dissertation provides first-hand experience creating scientific knowledge. The non-thesis master's option provides rapid, advanced preparation for the job market in 3 to 4 semesters, without research experience. Course requirements are 36 semester hours for the thesis option, 38 hours for the non-thesis option, and 60 hours beyond the master's degree for the doctoral degree.

Degrees Offered with a Major in Interdisciplinary Ecology

Doctor of Philosophy

without a concentration

concentration in Agricultural and Biological Engineering

concentration in Agricultural Education and Communication

concentration in Agronomy

concentration in Anthropology

concentration in Architecture

concentration in Biochemistry and Molecular Biology

concentration in Botany

concentration in Business Administration

concentration in Chemistry

concentration in Civil Engineering

concentration in Climate Science

concentration in Coastal and Oceanographic Engineering

concentration in Economics

concentration in English

concentration in Entomology and Nematology

concentration in Environmental Engineering Sciences

concentration in Family, Youth and Community Sciences

concentration in Farming Systems

concentration in Fisheries and Aquatic Sciences

concentration in Food and Resource Economics

concentration in Food Science

concentration in Forest Resources and Conservation

concentration in Foundations of Education

concentration in Geographic Information Systems

concentration in Geography

concentration in Geology

concentration in Health and Human Performance

concentration in Horticultural Sciences

concentration in Hydrologic Sciences

concentration in Landscape Architecture

concentration in Mathematics

concentration in Microbiology and Cell Science

concentration in Nuclear and Radiological Engineering

concentration in Philosophy

concentration in Political Science

concentration in Religion

concentration in Sociology

concentration in Soil and Water Science

concentration in Statistics

concentration in Tropical Conservation and Development

concentration in Urban and Regional Planning

concentration in Veterinary Medical Sciences

concentration in Wetland Sciences

concentration in Wildlife Ecology And Conservation

concentration in Women's/Gender Studies

concentration in Zoology

Master of Science

without a concentration

concentration in Agricultural and Biological Engineering

concentration in Agricultural Education and Communication

concentration in Agronomy

concentration in Anthropology

concentration in Architecture

concentration in Biochemistry and Molecular Biology

concentration in Botany

concentration in Business Administration

concentration in Chemistry

concentration in Civil Engineering

concentration in Climate Science

concentration in Coastal and Oceanographic Engineering

concentration in Economics

concentration in English

concentration in Entomology and Nematology

concentration in Environmental Engineering Sciences

concentration in Family, Youth and Community Sciences

concentration in Farming Systems

concentration in Fisheries and Aquatic Sciences

concentration in Food and Resource Economics

concentration in Food Science

concentration in Forest Resources and Conservation

concentration in Foundations of Education

concentration in Geographic Information Systems

concentration in Geography

concentration in Geology

concentration in Health and Human Performance

concentration in Horticultural Sciences

concentration in Hydrologic Sciences

concentration in Landscape Architecture

concentration in Mathematics

concentration in Microbiology and Cell Science

concentration in Nuclear and Radiological Engineering

concentration in Philosophy

concentration in Political Science

concentration in Religion

concentration in Sociology

concentration in Soil and Water Science

concentration in Statistics

concentration in Tropical Conservation and Development

concentration in Urban and Regional Planning

concentration in Veterinary Medical Sciences

concentration in Wetland Sciences

concentration in Wildlife Ecology And Conservation

concentration in Women's/Gender Studies

concentration in Zoology

Courses

- www.snre.ufl.edu/graduate/curriculum.htm
- EVR 5322: Scientific Processes in Conservation and Development
- EVR 5705: Natural Resources and Innovation Systems
- EVR 6320: Sustainable Natural Resource Management
- EVR 6933: Seminar
- EVR 6934: Internship
- EVR 6979: Nonthesis Master's Project
- PCB 6971: Research for Master's Thesis
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Soil and Water Science Department

Chair: K. Ramesh Reddy

Graduate Coordinator: Max Teplitski

Complete faculty listing by department: [Follow this link.](#)

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The Department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog

Soil and Water are vital resources in urban, agricultural, and natural ecosystems. The Soil and Water Science Department (SWSD) provides highly visible leadership in teaching, research, and extension/outreach programs as related to improving the productivity of agriculture with environmentally sound management practices, improving water quality, and protection and conservation of natural resources. Our department is one of the few in the nation that offers a comprehensive research and educational programs (molecular to landscape level) involving terrestrial, wetlands and aquatic ecosystems of the landscape. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place-bound students. Our graduates and postdoctoral fellows are well placed at universities, state and federal agencies, and private industry.

The SWSD programs are designed to meet the changing needs of our clientele at state, national and international levels. To meet new challenges and explore new opportunities, the SWSD's research, teaching, and extension programs are focused in five areas, with broader implication to water quality, carbon sequestration, greenhouse gases, and climate change:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

The Department offers graduate level certificates in Biodegradation and Remediation, Sustainable Land Resource and Nutrient Management, Soil Ecosystem Services, and Wetland and Water Resource Management for both on-campus students and via distance education for place bound students (<http://soils.ifas.ufl.edu/academics/degree-certificates.shtml>).

An additional option offered by the Department is a combined bachelor's/master's degree program that permits a B.S in Soil and Water Science or Interdisciplinary Studies – Environmental Management in Agriculture and Natural Resources and M.S. Degree to be completed in five years. Contact the graduate coordinator for more information.

For more information, please see the program page below and our website: <http://soils.ifas.ufl.edu>.

Other

Soil and Water Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Soil and Water Science Department](#)

Soil and Water Science Program Information

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Students can also develop specializations in several interdisciplinary areas including biogeochemistry, ecology, geographic information systems, hydrologic science, tropical agriculture, turfgrass management, and wetland science. The Department emphasizes (but is not limited to) the following research areas:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

Interests of the student and faculty, the facilities, and funding available will determine the student's research area. A specific program of study is prepared by an appointed supervisory committee for each student. Students will present a thesis or dissertation in their major field (M.S. thesis option and Ph.D.). In addition, Ph.D. candidates must pass a qualifying examination covering several areas of soil and water science and related fields.

Prerequisites: Students who expect to do graduate work in the Soil and Water Science Department should hold a bachelor's degree from an accredited college or university with a major in soil and water science or the equivalent background in another field of science. Graduate students should have backgrounds in biology, chemistry, physics, and mathematics and knowledge of basic soil and water science.

For more information, please see our website: <http://soils.ifas.ufl.edu>.

Degrees Offered with a Major in Soil and Water Science

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Agroecology

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Soil and Water Science Departmental Courses

- ALS 5027: Reusable Learning Objects
- ALS 5155: Global Agroecosystems
- CWR 6537: Contaminant Subsurface Hydrology
- SWS 5050: Soils for Environmental Professionals
- SWS 5050L: Soils for Environmental Professionals Laboratory
- SWS 5115: Environmental Nutrient Management
- SWS 5132: Tropical Soil Management
- SWS 5182: Earth System Analysis
- SWS 5208: Sustainable Agricultural and Urban Land Management
- SWS 5234: Environmental Soil, Water, and Land Use
- SWS 5235: South Florida Ecosystems
- SWS 5224: Environmental Biogeochemistry
- SWS 5246: Water Resource Sustainability
- SWS 5247: Hydric Soils
- SWS 5248: Wetlands and Water Quality
- SWS 5305C: Soil Microbial Ecology
- SWS 5308: Ecology of Waterborne Pathogens
- SWS 5406: Soil and Water Chemistry
- SWS 5424C: Soil Chemical Analysis
- SWS 5551: Soils, Water, and Public Health
- SWS 5605C: Environmental Soil Physics
- SWS 5716C: Environmental Pedology
- SWS 5721C: GIS in Land Resource Management
- SWS 5805: Environmental Soil and Water Monitoring Techniques
- SWS 6134: Soil Quality
- SWS 6136: Soil Fertility
- SWS 6161: Bioavailability of Soil Nutrients
- SWS 6262: Soil Contamination and Remediation
- SWS 6323: Advanced Microbial Ecology
- SWS 6325: Rhizosphere Biochemistry
- SWS 6366: Biodegradation and Bioremediation
- SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6722: Soil-Landscape Modeling
- SWS 6905: Special Problems
- SWS 6910: Supervised Research
- SWS 6931: Seminar
- SWS 6932: Topics in Soils

- SWS 6940: Supervised Teaching
- SWS 6971: Research for Master's Thesis
- SWS 7979: Advanced Research
- SWS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Wildlife Ecology and Conservation Department

[College of Agricultural and Life Sciences](#)

Chair: Eric C. Hellgren

Graduate Coordinator: Kathryn E. Sieving

Complete faculty listing by department: [Follow this link.](#)

The Department of Wildlife Ecology and Conservation offers Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees in wildlife ecology and conservation. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Program emphases include wildlife biology, ecology, and management; landscape ecology and restoration; human dimensions; tropical and international conservation; and conservation education. Graduate students should have appropriate undergraduate training in the biological, social, and physical sciences including physics, chemistry, and mathematics. Students with inadequate backgrounds may be required to take (without credit at the graduate level) remedial undergraduate courses pertinent to their fields of interest.

For more information, please see our website: <http://www.wec.ufl.edu>.

Other

Wildlife Ecology and Conservation

College

[College of Agricultural and Life Sciences](#)

Department/School

[Wildlife Ecology and Conservation Department](#)

Wildlife Ecology and Conservation Program

The Department of Wildlife Ecology and Conservation offers a breadth of graduate programs that are designed to prepare students for professional employment in conservation of natural resources in a changing world. WEC faculty teach, conduct research, and provide service and extension in the following areas: avian ecology, behavioral ecology, community ecology, conservation biology, conservation education, conservation genetics, ecosystem management, environmental interpretation, habitat restoration, herpetofaunal ecology, human dimensions of wildlife management, international conservation, introduced species, landscape ecology, mammalian behavior, marine mammal ecology, plant ecology, population biology, range ecology, systems ecology, tropical conservation, urban wildlife relations, wetlands ecology, wildlife diseases, and wildlife management.

The **Doctor of Philosophy (PhD) program** in Wildlife Ecology and Conservation serves graduate students conducting advanced, original studies of fundamental ecological and social sciences (e.g., ecosystem, community, landscape ecology, human dimensions), usually with applications to further society's understanding of wildlife ecology and to improve conservation of wildlife resources.

The **Master of Science (MS) thesis program** in Wildlife Ecology and Conservation: (a) prepares graduate students for entry-level professional positions in areas of wildlife biology and ecology, natural resource management, conservation, and (b) provides a solid scientific foundation for further graduate work leading to the PhD degree.

The **Master of Science, non-thesis (MS) program** in Wildlife Ecology and Conservation provides advanced training for students in technical and professional aspects of wildlife management, conservation, and public education, emphasizing written and oral communication of scientific information.

For more information, please see our website: <http://www.wec.ufl.edu>.

Degrees Offered with a Major in Wildlife Ecology and Conservation

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- WIS 5323C: Impact of Diseases on Wildlife Population
 - WIS 5376
- WIS 5496: Research Design in Wildlife Ecology
- WIS 5521: Plant-Animal Interactions
- WIS 5555C: Conservation Biology
- WIS 6444: Advanced Wetlands Ecology
- WIS 6455: Wildlife Population Ecology
- WIS 6466: Wildlife Population Modeling
- WIS 6468C: Pattern and Process in Landscape Ecology
- WIS 6525: Environmental Interpretation
- WIS 6544: Administration in Natural Resources
- WIS 6575: Mammalian Carnivores: Conservation and Management Issues
- WIS 6578: Human Dimensions of Biological Conservation

- WIS 6905: Research Problems in Wildlife and Range Sciences
- WIS 6910: Supervised Research
- WIS 6933: Seminar
- WIS 6934: Topics in Wildlife and Range Sciences
- WIS 6940: Supervised Teaching
- WIS 6971: Research for Master's Thesis
- WIS 6543: Wildlife and Agriculture
- WIS 7979: Advanced Research
- WIS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Departments and Programs within the College of Dentistry

College of Dentistry

Interim Dean: Boyd Robinson
Associate Dean & Director: Roberta Pileggi

Complete faculty listings: [Follow this link.](#)

Advanced education has progressed over the years to be an integral component of the College of Dentistry, growing from six certificate residency programs, with an enrollment of only 36 students in 1979, to fourteen certificate programs and various fellowship programs. Enrollment is now over 140. In 1993, the college started master degree programs in endodontics, orthodontics, periodontics and prosthodontics, and continues today to grow.

Follow this link for more information about UF's College of Dentistry graduate programs: <http://admissions.dental.ufl.edu/advanced-graduate-programs/programs-application-process/>

[Departments and Programs within the College of Dentistry.](#)

[College of Dentistry Courses](#)

Dental Sciences Department

[College of Dentistry](#)

Endodontics Chair and Graduate Coordinator: Roberta Pileggi
Orthodontics Chair and Graduate Coordinator: Calogero Dolce
Periodontology Chair: Ikramuddin Aukhil; Graduate Coordinator: Rodrigo Neiva
Restorative Dental Sciences Interim Chair: William Willis; Graduate Coordinator: Edgar O'Neill

Complete faculty listing: [Follow this link.](#)

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1
The application deadline of Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402

Requirements for the M.S. degree are provided in the [Graduate Degrees](#) section of this catalog.

For further information, see the Dental Science program link below.

Other

Dental Sciences

College

[College of Dentistry](#)

Department/School

[Dental Sciences Department](#)

Dental Sciences Program Information

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1

The application deadline of Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402.

Those not in Dentistry are given in-department graduate credit. Registration in the courses listed below is restricted to students currently admitted to a program in the College of Dentistry.

Degrees Offered with a Major in Dental Sciences

Master of Science

without a concentration

concentration in Endodontics

concentration in Orthodontics

concentration in Periodontics

concentration in Prosthodontics

General Courses

- DEN 6937
- DEN 6674: Advanced Oral Pathology
- DEN 6675: Craniofacial Pain
- DEN 6678: Advanced Oral Medicine and Drug Interactions in Dentistry
- DEN 6679: Advanced Radiology and Interpretation
- DEN 6905: Individual Study
- DEN 6910: Supervised Research
- DEN 6934: Special Topics in Dentistry
- DEN 6935: Special Topics in Dentistry
- DEN 6936: Practice Management
- DEN 6940: Supervised Teaching
- DEN 6941: Clinical Teaching in Dentistry
- DEN 6942: Grand Rounds
- DEN 6971: Research for Master's Thesis
- DEN 6973: Project in Lieu of Thesis

Endodontics Courses

- DEN 6642: Introduction to Advanced Endodontics
- DEN 6643: Treatment Planning/Cases Presentation
- DEN 6644: Nonsurgical Endodontic Care I
- DEN 6645: Nonsurgical Endodontic Care II
- DEN 6646: Surgical Endodontics I
- DEN 6647: Surgical Endodontics II

Orthodontics Courses

- DEN 6602: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 1: Class I Treatment
- DEN 6603: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 2: Class II Treatment
- DEN 6604: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 3: Class II Treatment and Overbite Treatments
- DEN 6605: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 4: Class II Treatment and Overbite Treatments
- DEN 6606: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 5: Class III and Crossbite Treatments and Soft Tissue Considerations
- DEN 6607: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 6: Impactions, Transplantations and Stability
- DEN 6608: Analysis, Diagnosis, and Treatment Planning: Part I
- DEN 6609: Analysis, Diagnosis, and Treatment Planning: Part II
- DEN 6610: Biology of Tooth Movement: Part I
- DEN 6612: Orthodontic Biomechanics: Part I
- DEN 6613: Orthodontic Biomechanics: Part II
- DEN 6614: Ortho-Perio Relationships: Part I
- DEN 6615: Ortho-Perio Relationships: Part II
- DEN 6616: Orthognathic Surgery: Part I
- DEN 6617: Orthognathic Surgery: Part II
- DEN 6618: Postnatal Growth and Development
- DEN 6670: Craniofacial Anomalies
- DEN 6671: Prenatal Growth and Development
- DEN 6672: Materials in Orthodontics

Periodontics Courses

- DEN 6652: Review of Periodontics Literature I
- DEN 6653: Review of Periodontics Literature II
- DEN 6654: Review of Periodontics Literature III
- DEN 6655: Review of Periodontics Literature IV
- DEN 6656: Introduction to Advanced Periodontology

- DEN 6657: Periodontal Histology and Histopathology
- DEN 6658: Treatment Planning in Periodontal Therapy

Prosthodontics Courses

- DEN 6622: Principles of Occlusion
- DEN 6623: Maxillofacial Prosthetics
- DEN 6624: Dental Implant Restoration
- DEN 6625: Fixed Prosthodontic Ceramics
- DEN 6626: Advanced Removable Partial Dentures
- DEN 6627: Treatment Planning Seminar

Departments and Programs within the College of Design, Construction, and Planning

College of Design, Construction, and Planning

Dean: C. Silver

Complete faculty listings: [Follow this link.](#)

DCP is home to five independent professional disciplines: architecture, construction management, interior design, landscape architecture and urban and regional planning. The college also is home to an interdisciplinary program in historic preservation, which allows graduate students to gain expertise in research and application of historic preservation in the United States and abroad.

Accreditation and Degrees

The academic programs in the college have an accreditation process from the professional organizations of each discipline.

- Architecture – National Architectural Accrediting Board
- Construction Management – American Council for Construction Education
- Interior Design – Foundation for Interior Design Education Research
- Landscape Architecture – American Society of Landscape Architects
- Urban and Regional Planning – Planning Accreditation Board

DCP offers both undergraduate and graduate degrees and programs. Through its academic units, the college offers doctoral, master's, and bachelor's degrees, as well as distance education programs, combined degrees, joint degrees, certificate programs, and academic minors.

College Institutes, Centers and Programs

Research and service projects conducted through the research centers and institutes often entail multidisciplinary, cross-campus student input and effort. Each division of the college is involved in on-going projects that advance both scholarly study and professional practice. The college contributes to community, state, regional and national efforts to conserve and improve the quality of the natural and built environments through its research centers. The college's teaching and research programs have national and international prominence.

For more information, please see our website: <http://www.dcp.ufl.edu>

[Departments and Programs within the College of Design, Construction, and Planning](#)

[College of Design, Construction, and Planning Courses](#)

Other

Design, Construction, and Planning (Ph.D.)

College

[College of Design, Construction, and Planning](#)

Degrees Offered with a Major in Design, Construction, and Planning

Doctor of Philosophy

without a concentration

concentration in Construction Management

optional second concentration in Geographic Information Systems

concentration in Geographic Information Systems

concentration in Historic Preservation

optional second concentration in Geographic Information Systems

concentration in Interior Design

optional second concentration in Geographic Information Systems

concentration in Landscape Architecture

optional second concentration in Geographic Information Systems

concentration in Urban and Regional Planning

optional second concentration in Geographic Information Systems

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design

- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM5905: Special Studies
- ICM6420: Commercial Management and Cost Control
- ICM6440: Construction Value Management
- ICM6680: Principles of International Sustainable Construction
- ICM6682: Construction Ecology and Metabolism
- ICM6684: High-Performance Green Building Delivery Systems
- ICM6710: Construction Human Resource Management
- ICM6750: Managing Construction Information Technology
- ICM6751: International Construction Management
- ICM6752: Construction Finance and Investment
- ICM6761: Advanced Planning, Scheduling, and Logistics
- ICM6762: Construction Risk Management
- ICM6770: Advanced Project Safety Management
- ICM6772: International Strategic Management
- ICM6905: Directed Independent Study in International Construction
- ICM6910: Supervised Research
- ICM6930: Construction Communication and Research
- ICM6934: International Construction Research

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I

- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning

- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Historic Preservation

College

[College of Design, Construction, and Planning](#)

Degrees Offered with a Major in Historic Preservation

Master of Historic Preservation

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II

- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report

- FES 6940: Practicum in FES
- ICM5905: Special Studies
- ICM6420: Commercial Management and Cost Control
- ICM6440: Construction Value Management
- ICM6680: Principles of International Sustainable Construction
- ICM6682: Construction Ecology and Metabolism
- ICM6684: High-Performance Green Building Delivery Systems
- ICM6710: Construction Human Resource Management
- ICM6750: Managing Construction Information Technology
- ICM6751: International Construction Management
- ICM6752: Construction Finance and Investment
- ICM6761: Advanced Planning, Scheduling, and Logistics
- ICM6762: Construction Risk Management
- ICM6770: Advanced Project Safety Management
- ICM6772: International Strategic Management
- ICM6905: Directed Independent Study in International Construction
- ICM6910: Supervised Research
- ICM6930: Construction Communication and Research
- ICM6934: International Construction Research

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics

- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

School of Architecture

Director: M. Gold.

Graduate Coordinator: N. M. Clark.

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization in this

program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, Box 115701.

Master of Architecture: The School of Architecture offers graduate work leading to the first professional degree, Master of Architecture. During graduate studies, each student has the opportunity to focus on one or more areas, including design, history and theory, urban design, preservation, structures, and technology. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design. The student's overall college experience, both undergraduate and graduate programs, is intended to be a complete unit of professional education leading to practice in architecture or related fields.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Florida School of Architecture offers the following NAAB-accredited degree programs:

Master of Architecture (pre-professional degree + 52 graduate credits) Master of Architecture (professional degree + 30 graduate credits) Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits)

Master of Architecture (pre-professional degree + 52 graduate credits): For those students who have a 4-year baccalaureate degree from an accredited architectural program, 2 years in residence (52 credits) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. Course sequences in history and theory, technology, structures, and practice must also be completed.

Master of Architecture (professional degree + 30 graduate credits): For students who have a baccalaureate degree with an architecture or related major (interior design, landscape architecture) and who have completed 4 or 6 architecture or design studies courses, three years of residence (83 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. (Undergraduate courses 3000 and 4000 level in the major do not count toward the minimum requirements for the graduate degree.) Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits): For students with a baccalaureate degree in a nonrelated academic area and have completed fewer than 4 design studies courses, 4 years of residence (112 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4071](#), [ARC 4072](#), [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or project. Undergraduate courses 3000 and 4000 level in the major do not count toward the 52-hour minimum requirements for the graduate degree. Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Accredited 5-year professional base: For students with a baccalaureate degree in architecture from an accredited 5-year professional degree program, a 1-year degree program is available. In these cases, a specialized curriculum is developed that complements the needs of the applicant. Minimum registration is 30 credits; however, the minimum may increase if transcript reviews show that further course work is needed to meet registration and curriculum requirements. [ARC 6356](#) is a prerequisite for the thesis or master's project.

Most states require individuals intending to become architects to hold an accredited degree. The National Architectural Accrediting Board acknowledges two types of degrees: the Bachelor of Architecture (minimum 5 five years of study); and the Master of Architecture (minimum 3 years of study after an unrelated bachelor's degree, or 2 years after a related pre-professional bachelor's degree). These professional degrees educate those who aspire to registration and licensure to practice as architects.

Student work: The College may retain student work for the purpose of record, exhibition, or instruction.

Master of Science in Architectural Studies: The M.S.A.S. is a nonprofessional degree for advanced investigations in specialized areas of architectural history, architectural pedagogy, theory, technology, design, preservation, or practice. Students with a bachelor's degree in any discipline from an accredited university are eligible to apply to this program; the proposed area of focus should be precisely defined in the application. This is a 3- to 4-semester program (32 hours minimum) that includes a thesis. (No more than 6 hours of [ARC 6971](#) may be counted in the minimum credit hours for the degree.) Interdisciplinary study is encouraged. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design.

The School sponsors special curricula in architecture to enhance the academic program. *Preservation Institute: Caribbean, Preservation Institute: Nantucket, and Vicenza Institute of Architecture (Italy)* accepts students from the University of Florida, and also from academic circles throughout the United States and the world for year-round study. Any student in a graduate architecture program at the University of Florida may apply for one or more of these programs.

Requirements for the M.Arch., M.S.A.S., and Ph.D. degrees are described in the *General Information* section of this catalog.

The School also participates in a program granting an Interdisciplinary Concentration and Certificate in Sustainable Architecture. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Applications: All applications for fall term graduate admission (including official transcripts, GRE scores, and TOEFL scores, if necessary) must be received by the Office of the Registrar by January 15. In addition to satisfying University requirements for admission, applicants are required to submit to the Graduate Program Assistant, School of Architecture, 231 ARCH, Box 115702, the following: a portfolio of their creative work; a scholarly statement of intent and objectives; and three letters of recommendation. This material must be received by January 15 to be considered for admission in the next fall term. Students may apply after the January 15 deadline but will only be considered if spaces become available. (Updates of portfolios are accepted after January 15; however, applications will not be considered until they are complete.)

The School reserves the right to retain student work for purposes of record, exhibition, or instruction. Field trips are required of all students; students should plan to have adequate funds available. It may be necessary to assess studio fees to defray costs of base maps and other generally used materials.

Other

Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[School of Architecture](#)

Degrees Offered with a Major in Architecture

Master of Science in Architectural Studies

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Master of Architecture

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Courses

- ARC 6512: Structural Modeling
- ARC 6116: Drawing toward Architecture
- ARC 6311C: Building Information Modeling
- ARC 6383: St. Augustine Interdisciplinary Design Studio
- DCP 6710: History and Theory of Historic Preservation
- DCP 6715: Preservation Building Technology
- DCP 6971: Research for Master's Thesis
- URP 6272: Advanced Planning Information Systems

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

M.E. Rinker, Sr., School of Construction Management

Director: Robert Ries

Director of Master's Programs: Robert E. Minchin

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary doctoral program in design, construction, and planning. Areas of specialization in the program include architecture, construction management, interior design, landscape architecture, and urban and regional planning. Within the area of construction management, specialization options include sustainable construction, information systems, construction safety, affordable housing, productivity, and human resource management. These specializations prepare students to assume college-level faculty positions and industry research positions in construction management and the building sciences. For more information on the Ph.D. program, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701. For information on the specializations in the Rinker School of Construction Management, write to the Director of Graduate and Distance Education, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703.

The M.E. Rinker Sr. School offers courses leading to the degrees of Master of Science in Construction Management (thesis), Master of Construction Management (nonthesis), and Master of International Construction Management (nonthesis distance education program for experienced professionals). An individual plan of study is prepared for each student to insure that the student's goals are achieved within the broad policy guidelines of the Rinker School. Specialization may be in such areas as construction management, sustainable construction, information systems, construction safety, and construction law. Requirements for the M.B.C., M.S.B.C., M.I.C.M., and Ph.D. degrees are given in the General Information section of this catalog.

Master of Construction Management (M.C.M.) or Master of Science in Construction Management (M.S.C.M.): To be eligible for admission to the M.C.M. or M.S.C. programs, a student must hold a 4-year undergraduate degree in building construction or its equivalent in related fields. "Equivalent in related fields" should include studies in construction materials and methods, structures, and management. Students with deficiencies in these related fields may need longer residence for the master's degree, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement.

No more than 3 credits of [BCN 6971](#) may be used to satisfy the credit requirements for the M.S.C.M. degree without written permission of the Director of Master's Programs.

Master of International Construction Management (M.I.C.M.): This program prepares students to assume upper-level management responsibilities in a multinational company. To be eligible for admission to the M.I.C.M. program, a student must have

- A 4-year undergraduate degree
- At least 5 years of meaningful, supervisory-level construction management experience
- Acceptable GRE scores (verbal and quantitative)
- A grade point average of 3.0 on a 4.0 scale
- Employer sponsorship
- International students must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

No more 3 credits of [ICM 6934](#) may be used to satisfy the credit requirements for the M.I.C.M. without written permission of the Director. All candidates are required to take ICM 6930. In addition to these 6 research-oriented graduate credit hours, the student selects one or two areas of emphasis and then takes the rest of the required 33 credit hours from the remaining courses and special electives. All candidates are required to pass a comprehensive oral and/or written examination at the completion of the course work and their master's research report/project.

The M.E. Rinker Sr. School reserves the right to retain student work for purposes of record, exhibition, or instruction.

Research facilities: The Shimberg Center for Housing Studies, operating within the School, researches the problems and possible solutions associated with developing and producing affordable housing. The Powell Center for Construction and the Environment conducts research on implementing sustainability in creating, operating, and constructing a built environment. The Fluor Program for Construction Safety researches and disseminates information on matters related to construction safety and health. The Center for Advanced Construction Information Modeling educates members of the AECO industry about new and emerging technologies in virtual design and construction.

Combined program: The School offers a combined bachelor's/master's degree program. Contact the Director of Master's Programs for information.

For more information, please see our website: <http://www.bcn.ufl.edu>.

Other

Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Construction Management

Master of Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Master of Science in Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research

- ICM6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Fire and Emergency Services

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Fire and Emergency Services Program Information

The Master of Fire and Emergency Services degree program focuses on Emergency Services/Disaster Management (ESDM) and is designed for individuals who are seeking knowledge in emergency planning, hazard mitigation and preparedness, disaster response and recovery, and homeland security. The goal is to create broad experience that includes the many elements of current cases in ESDM and emphasizes both the critical thinking and leadership skills necessary to advance in the field.

The M.F.E.S. degree provides post-professional advancement for the critical technical issues beyond the initial fire science practices and administrative studies. Major research topics include interdisciplinary studies in material sciences, suppression systems, advanced planning and geographic systems, pre- and post-disaster mitigation planning, computer applications, and technological innovations.

The M.F.E.S. is an online distance education program. All courses are conveniently delivered utilizing a web-based e-Learning system.

For more information, please see our website: <http://www.bcn.ufl.edu/academics/masters/msfesedsm>.

Degrees Offered with a Major in Fire and Emergency Services

Master of Fire and Emergency Services

without a concentration

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control

- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship

- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

International Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in International Construction Management

Master of International Construction Management

without a concentration

concentration in Historic Preservation

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery

- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM5905: Special Studies
- ICM6420: Commercial Management and Cost Control
- ICM6440: Construction Value Management
- ICM6680: Principles of International Sustainable Construction
- ICM6682: Construction Ecology and Metabolism
- ICM6684: High-Performance Green Building Delivery Systems
- ICM6710: Construction Human Resource Management
- ICM6750: Managing Construction Information Technology
- ICM6751: International Construction Management
- ICM6752: Construction Finance and Investment
- ICM6761: Advanced Planning, Scheduling, and Logistics
- ICM6762: Construction Risk Management
- ICM6770: Advanced Project Safety Management
- ICM6772: International Strategic Management
- ICM6905: Directed Independent Study in International Construction
- ICM6910: Supervised Research
- ICM6930: Construction Communication and Research
- ICM6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Sustainable Construction

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Sustainable Construction

Master of Science in Construction Management

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis

- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar

- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Interior Design Department

Chair: M. Portillo.

Graduate Coordinator: N. Park

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy:

The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Interior Design:

The Master of Interior Design (M.I.D.) provides opportunities for students to direct their attention toward a variety of topics, including

- Design pedagogy and processes
- Sustainable, safe, and secure environments
- Creative performance and innovation
- Built heritage conservation.

Regardless of the study emphasis selected by the student, the M.I.D. program has a central focus with three categories of course work:

- Design studio
- Seminars in current interior design topics
- Theories and methods of research.

All M.I.D. students must complete an approved research topic with a written thesis. Requirements for the M.I.D. and Ph.D. degrees are given in the *General Information* section of this catalog.

Applications:

All applications must include acceptable GRE scores, transcripts for all previous academic work, and if the applicant's native language is not English, a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute. This information must be received in the Office of the Registrar by February 2. In addition to satisfying University requirements for admission, the applicants are required to submit to the Graduate Program Assistant, Department of Interior Design, 336 Architecture, P.O. Box 115705, University of Florida, Gainesville, FL 32611-5705, the following:

- A portfolio of your design work (if applicable). The portfolio must be accompanied by a self-addressed, stamped envelope.
- A written essay on your goals and aspirations related to graduate studies
- Three letters of recommendation.
- A personal interview is not required, but many applicants choose to visit the campus and Department as a part of the application process.

Students enrolled in the Bachelor of Interior Design program at the University of Florida may apply to the M.I.D. program during their junior year (see below).

The Department reserves the right to retain student course work for the purposes of record, exhibition, or instruction. Field trips are required for all students; students should plan to have adequate funds available. Students are required to purchase a computer for course work. It may be necessary to assess studio fees to defray costs of base maps, plans, and other generally used materials.

Admission: Applications are processed through February 2 for fall term and all applicants are encouraged to apply as soon as possible. Admission decisions are made between February and the end of April. All new students begin their studies in the fall to coincide with curriculum sequencing.

Graduate course requirements according to background: After assessment of previous design work, leveling courses may be required to prepare the student for the M.I.D. 36 hours of graduate course work. Therefore, each student entering the Master of Interior Design program works with the graduate coordinator to evaluate the student's unique background to determine the specific courses needed to facilitate interest and experience. Estimated credit hours and length of study time vary according to each student's individual baccalaureate degree and experience.

There are four options.

- For students enrolled in the Bachelor of Design program at the University of Florida, 12 hours of graduate-level course work in the senior year can be counted for both the undergraduate and the M.I.D. degrees. An additional 24 graduate credit hours are required. Expect at least 1 additional year to complete the M.I.D.
- For students who graduated from a Council of Interior Design Accreditation (CIDA) accredited first professional degree program within an architectural framework, the course of study is estimated to be 36 graduate credit hours. Expect 2 years to complete the M.I.D.
- For students who graduated from a design-related (architecture or interior design) baccalaureate degree program, the course of study is estimated to be a maximum of 59 graduate credit hours (includes the 36-hour M.I.D.). Expect 3 years to complete leveling courses and the master's degree.
- For students with a bachelor's degree in a field other than design, the course of study is estimated to be 86 undergraduate and graduate credit hours. Expect 3 to 4 years to complete leveling courses and the M.I.D.

Estimates of the number of credit hours and length of study time may be adjusted based on the individual student's previous preparation including experience as a practicing designer, architect, or other professional.

Program requirements: After leveling courses are completed and with approval by the graduate coordinator and supervisory committee chair, a student completes 24 hours of departmentally approved graduate work in the Department of Interior Design. In addition, with the graduate coordinator's approval, the student is required to take 3 hours of course work in graduate statistics and 9 hours of multidisciplinary graduate electives that reinforce and extend the research.

Courses from such academic units as Psychology, Anthropology, Sociology, Engineering Education, and Business Administration provide possible electives. The College of Design, Construction and Planning offers the Certificate in Historic Preservation. If the focus of a student is the renovation and preservation of built environments, then historic preservation courses leading to a certificate would strengthen the research and design effort. Likewise, existing appropriate courses in Architecture, Landscape Architecture, Urban and Regional Planning, and Building Construction offer both collaborative study and research opportunities for M.I.D. students.

Each student must select a two-member supervisory committee to guide course selection and to guide thesis selection, study, and production.

Other

Interior Design

College

[College of Design, Construction, and Planning](#)

Department/School

[Interior Design Department](#)

Degrees Offered with a Major in Interior Design

Master of Interior Design

without a concentration

concentration in Historic Preservation

concentration in Sustainable Design

Courses

- IND 5326: Color Theory Planning and Practice

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship

- IND 6971: Research for Master's Thesis

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Landscape Architecture Department

[College of Design, Construction, and Planning](#)

Chair: Gina Gurucharri

Graduate Coordinator: Kevin Thompson

Complete faculty listing by department: [Follow this link](#)

The mission of the Department of Landscape Architecture is to advance the ethical, creative, and skillful application of the art and the science of planning and designing urban, rural and natural environments. The Master of Landscape Architecture seeks excellence through professional practice and service, and through research and scholarly pursuit.

Interstate field trips are required as a part of the normal program curriculum. Students should plan to have adequate funds for field trips and for studio materials. Students are also required to own a laptop computer meeting minimum department requirements. These specifications are available through the department of Landscape Architecture's website at URL: <http://www.dcp.ufl.edu/landscape>.

The Graduate program in Landscape Architecture offers flexibility in meeting the needs of applicants with varied backgrounds. Students entering the graduate program in landscape architecture follow one of the four following tracks:

Pre MLA Program

Graduate students who do not possess an LAAB accredited professional degree in landscape architecture are invited to enroll in the Pre MLA program.

The Pre MLA Program aids the development of basic analytical, design and graphic skills. Upon successful completion of the Pre MLA Summer term, students advance into a two-semester sequence of articulation courses that provide a foundation of applied landscape design and planning theory as well as competencies in landscape construction.

MLA Advanced Graduate Studies Program

Graduate students having completed the Pre MLA program or entering the MLA program with an LAAB accredited professional baccalaureate degree in Landscape Architecture commence a two year program of advanced graduate coursework towards the completion of the MLA degree.

MLA Program + Construction

Graduate students with a non-accredited or non-LAAB accredited degree in Landscape Architecture may apply directly to the MLA program but may be required to take additional coursework to develop core competencies required for advanced graduate study.

MLA Research Degree

Graduate students with an LAAB accredited professional degree in Landscape Architecture and a significant history of achievement in professional practice may tailor a program of advanced study to meet their specific needs. Proposals for the MLA Research Degree option are reviewed by the Graduate Coordinator and an approved course of study is determined through consultation with the Graduate Committee.

The normal tenure of advanced graduate study is five semesters which includes a summer semester internship. Students complete a minimum of 52 credit hours composed of lecture courses, seminars, design and construction studios, internship and individual study (special studies, supervised research and thesis or terminal project).

This time period would be extended should a student elect to expand the course work or seek a concurrent degree in a related field.

Design studios: Graduate design studios build on required lecture and seminar courses. A core of three advanced design studios are topically-oriented focusing on issues of human, ecological and regional concern. Each studio requires students to engage a method appropriate to the studio's selected projects, to analyze the findings generated by this research and to use the findings to build a rational argument that leads to a defensible design position. Interdisciplinary and multidisciplinary collaborations are encouraged on both a formal and an informal basis. Graduate studio projects also deal with current issues related to the mission of the Department with an additional focus on research and community service.

Thesis or terminal project: The Department recognizes that students have different professional goals and personal strengths and interests. A thesis is appropriate for students interested in further research or teaching, or in pursuing advanced degrees. A project (with a significant research component) is appropriate for students interested in design or project-oriented aspects of landscape architecture, or if their specific areas of interest suggest a nontraditional approach.

Programs, centers, and institutes: The College of Design, Construction, and Planning has several research centers and institutes. The course work and summer sessions afforded by these programs offer both required and elective course work for graduate students in landscape architecture:

The Center for Landscape Conservation Planning: The Center for Landscape Conservation Planning conducts applied research on the relationship between conservation and land

use while providing learning opportunities for students.

The Center for International Design and Planning: The Center for International Design and Planning conducts interdisciplinary research with a focus on emerging design and planning trends in an era of globalization with a focus on resilient development systems and adaptive design and planning strategies.

The Preservation Institute: Nantucket gives students an opportunity to receive specialized educational experience in a broad range of preservation topics using Nantucket as a resource for case-study projects.

The Preservation Institute: Caribbean gives students an opportunity to conduct and apply research regarding the conservation of the rich cultural traditions of the Greater Caribbean basin.

The GEOPLAN Center is dedicated to the development of geographic and spatial information systems. Graduate students receive instruction in geographic information systems and are involved in a multidisciplinary studio that applies the tools and systems understanding afforded by GIS.

Graduate advisement: Students are initially advised by the Graduate Coordinator. He or she has guided the student's application through the acceptance process and is familiar with the student's background and needs. A plan of study is developed that includes required and optional courses. By the end of the second semester of study, each student is required to form a supervisory committee composed of two faculty members. The primary purpose of the graduate committee is to advise the student on educational objectives and the thesis or terminal project course work.

Application Procedure

Details of application procedure are found on the Department of Landscape Architecture's website. Applicants are encouraged to familiarize themselves with the details of the application procedures and the application requirements. Applications will ONLY be considered for the track for which they have been submitted. Make certain you are applying to the correct track based on your background and credentials and the criteria detailed above.

Application Dates

Applications are to be completed and submitted prior to the deadline noted on the Department's website. Unless otherwise noted, international applications must be received by November 1st. Applications from within the US are to be received no later than February 1st. Early applications are encouraged.

Application materials to be submitted online and/or to the Office of the Registrar

Application materials include the online application form accompanied by official transcripts, Letters of Recommendation, GRE scores, and TOEFL scores (applicants with English as a second language) to Office of the Registrar: Admissions Section, Criser Hall, University of Florida, Gainesville, Florida 32611.

Application Materials to be submitted directly to the Department

In addition to the materials submitted to the registrar's office, applicants must also submit a letter of intention to the Department of Landscape Architecture (Graduate Program Assistant).

Application Portfolio

All applicants are encouraged to submit a portfolio of creative works.

Post professional degree applicants applying for either the Pre MLA Fall Start or MLA Advanced Graduate Study program are required to submit a portfolio that both exhibits creative work experience and shows evidence of acquired technical proficiencies in the practice of landscape architecture.

All portfolio must be digital. PDF is preferred.

Application Status

Applications will be processed once all material has been received and must be complete prior to the application deadline. Applicants will be contacted by the Program Assistant if their application is incomplete. Please respond quickly if you have been contacted to increase the chances of your application being considered in the current review period. Only completed applications will be processed for review.

Once the application has been processed for review, applicants will receive written notification of their application status, generally sometime in the middle of March. Please do not contact the department with inquiries of your application status prior to the end of March.

Preparatory courses (see Undergraduate Catalog): LAA 2330, LAA 2350, LAA 2360, LAA 2370, LAA 3420, LAA 3350, LAA 3352, LAA 3421, LAA 3550, [LAA 6716](#), and ORH 3513.

Other

Landscape Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[Landscape Architecture Department](#)

Landscape Architecture Program

The Department of Landscape Architecture offers graduate programs leading to the Master of Landscape Architecture (M.L.A.) degree in Landscape Architecture. A Ph.D. degree with a concentration in Landscape Architecture is also offered through the College of Design, Construction and Planning. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Master of Landscape Architecture: The MLA is a Landscape Architecture Accreditation Board (LAAB) accredited professional Master's degree in Landscape Architecture. Graduation from an accredited program is an essential first step toward licensing in Florida and other states that regulate the practice of landscape architecture.

For more information, please see our website: <http://www.dcp.ufl.edu/landscape>.

Degrees Offered with a Major in Landscape Architecture

Master of Landscape Architecture

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Wetland Sciences

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study

- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Urban and Regional Planning Department

Director of School of Landscape Architecture and Planning: Kristin Larsen

Chair: Joseli Macedo

Graduate Coordinator: Stanley Latimer

Graduate Coordinator of Online Degree program: Ferdinand Lewis

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy: The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in Design, Construction, and Planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Arts in Urban and Regional Planning: The Department of Urban and Regional Planning offers graduate work leading to the degree of Master of Arts in Urban and Regional Planning (M.A.U.R.P.). Students are encouraged to enter the program in the fall semester. The program is usually completed in two academic years. The student entering with an undergraduate degree and no graduate study must complete 52 hours of credit for the M.A.U.R.P. degree. Students who have a master's degree in a related field may transfer up to 18 graduate semester hours toward the 52 hour requirement. Such a transfer of credit requires the approval of the Department. The Department encourages students with any undergraduate degree who are interested in the field of planning to apply for admission.

Complete descriptions of the requirements for the M.A.U.R.P. and Ph.D. degrees are provided in the *General Information* section of this catalog.

The urban and regional planning curriculum is designed to provide a set of core studies and contextual projects which prepare the graduate for the practice of planning in public or private agencies at both national and international levels. The core studies include history and theory of planning; planning methods; growth management at local, regional, and state levels; and related studies in community and regional social, natural, and economic systems. Contextual projects include, among many subject areas, urban design, transportation, regional planning, community redevelopment and preservation, housing, real estate, and economic development. The program emphasizes planning policies, and design for the physical environment. Current specializations include growth management and transportation, urban design, housing, community and economic development, information technologies for planning, and environmental planning. Students are also encouraged to take advantage of the extensive faculty, course offerings, and other resources available in the College of Design, Construction, and Planning and throughout the University. The Department has two research centers: The Geo-facilities Planning and Information Center (GeoPlan), the Center for Building Better Communities (CBBC), and the Center for Health and the Built Environment (CHBE).

The curriculum is supported by an extensive GIS laboratory, and a visual aid library. Variation from the core studies may be approved by the Department if the student can demonstrate education and experience to the faculty that would support such an alternative. The M.A.U.R.P. degree is accredited by the Planning Accreditation Board, a joint undertaking of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning, for having achieved the highest applicable standards for graduate education in the field of planning. Graduates of the Department are prepared to practice urban and regional planning.

The Department of Urban and Regional Planning and the College of Law offer a joint degree program (see *Requirements for Master's Degrees* in the *General Information* section of this catalog). Areas of concentration with other programs in the Graduate School may be developed to meet the individual needs of students. In addition to course work the student is required to complete an internship with a public or private planning office and the student must complete a thesis.

The Department reserves the right to retain student work for purposes of record, exhibition, or instruction.

Other

Urban and Regional Planning

College

[College of Design, Construction, and Planning](#)

Department/School

[Urban and Regional Planning Department](#)

Degrees Offered with a Major in Urban and Regional Planning

Master of Arts in Urban and Regional Planning

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- URP 6276: Internet Geographic Information Systems
- URP 6277: Land Use Visioning and Analysis
- URP 6610: International Development Planning
- URP 6711: Transportation and Land Use Coordination
- URP 6743: Affordable Housing Law
- URP 6855: Urban Form in Cities throughout the Americas
- URP 6887: Advanced Defensible Space in Urban Design

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners

- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Departments and Programs within the College of Education

College of Education

Dean: G. Good.

Complete faculty listings: [Follow this link.](#)

Graduate study in education, allows individuals with bachelor's degrees in agriculture, business, education, engineering, mathematics, sciences, humanities, foreign languages, preprofessional studies and other fields to prepare for rewarding professional careers in education and related fields.

The College of Education offers 19 master's or specialist programs, 12 doctoral programs, and a J.D./Ph.D. program with the College of Law through its three schools: [Human Development and Organizational Studies in Education](#); [Special Education, School Psychology and Early Childhood Studies](#); and [School of Teaching and Learning](#).

Follow these links for more information about UF's College of Education graduate programs:

<http://education.ufl.edu/graduate-studies>

<http://education.ufl.edu/programs>

[Departments and Programs within the College of Education](#)

[College of Education Courses](#)

Human Development and Organizational Studies in Education Department

Director: Linda B. Eldridge

Graduate Coordinator: Patricia Ashton

Complete faculty listing by department: [Follow this link](#).

Programs leading to the Master of Arts in Education (M.A.E.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees are offered through this school with programs in Counseling and Counselor Education, Educational Leadership, Higher Education Administration, Marriage and Family Counseling, Mental Health Counseling, Research and Evaluation Methodology, School Counseling and Guidance, and Student Personnel in Higher Education.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

More information can be found at our website: <http://education.ufl.edu/hdose>

Other

Counseling and Counselor Education

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Counseling and Counselor Education Program

The doctoral program in Counseling and Counselor Education prepares students for careers in academia and advanced clinical and administrative positions. Our program aligns with the University of Florida mission to prepare the next generation of scholars and professional leaders. Thus, our doctoral program is a good fit for individuals who want to fulfill the roles of counselor educators – research, writing, teaching, service, securing external funding to support scholarship, assuming professional leadership positions, etc. The doctoral program is ideally suited for individuals with previously earned masters and at least two years of clinical experience. Doctoral students complete coursework, a doctoral clinical internship, participate in teaching and supervision, and conduct research leading to the completion of a dissertation. Students average 3 to 5 years to complete the doctorate, many of whom balance work and school commitments.

Degrees Offered with a Major in Counseling and Counselor Education

Doctor of Education

without a concentration

concentration in Marriage and Family Counseling

concentration in Mental Health Counseling

concentration in School Counseling and Guidance

Doctor of Philosophy

without a concentration

concentration in Marriage and Family Counseling

concentration in Mental Health Counseling

concentration in School Counseling and Guidance

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research
- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
- EDG7222: Curriculum: Theory and Research
- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments
- EDH6503: Resource Development in Higher Education
- EDH6632: Current Issues in Community College Leadership
- EDH6637: Crisis Management in Higher Education
- EDH6931: Special Topics in Higher Education
- EDH6935: Seminar in College Student Personnel Administration

- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Educational Leadership

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Educational Leadership Program Information

Programs in Educational Leadership provide opportunities for professional educators and those who would like to be professional educators to receive quality coursework, mentorship, and degrees in educational administration, policy, and leadership. The programs provided are ideal for vice principals, principals, district directors and supervisors, assistant superintendents, school business managers, teachers aspiring to acquire administrative roles within the K-12 system and educational leaders of other organizations.

Degrees Offered with a Major in Educational Leadership

Doctor of Education

without a concentration

concentration in Educational Policy

Doctor of Philosophy

without a concentration

concentration in Educational Policy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations

- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health

- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Higher Education Administration

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Higher Education Administration Program Information

The Higher Education Administration program has been established for students aspiring to become community college and university administrators, deans, presidents, and professors. America's community colleges and universities will soon face a critical leadership gap. As the baby boom generation approaches retirement age, many provosts, deans and college presidents are getting ready to add "emeritus" to their titles. As a result, openings in top leadership positions are expected to exceed the number of appropriately-trained individuals for many years to come.

The University of Florida's College of Education is helping fill the gap. Our nationally recognized Higher Education Administration Program prepares future leaders for their roles in administrative positions in higher education. Our faculty and alumni shaped the community and state college system as we know it, and our graduates have gone on to crucial administrative positions at two- and four- year institutions. Join us in shaping the future of higher education.

Degrees Offered with a Major in Higher Education Administration

Doctor of Education

without a concentration

concentration in Educational Policy

Doctor of Philosophy

without a concentration

concentration in Educational Policy

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research
- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
- EDG7222: Curriculum: Theory and Research
- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel

- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Marriage and Family Counseling

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Marriage and Family Counseling Program Information

The Marriage & Family Counseling/Therapy program specialization emphasizes an eco-systemic approach to understanding human problems and generating solution opportunities: Students learn to moderate solution-oriented conversations among interested parties (i.e., stakeholders) who are invited to seek "double descriptions" of mutual concerns and problems, to listen carefully to each other, to entertain and invent multiple solution possibilities, and to construct new narratives of cooperation and commitment.

Degrees Offered with a Major in Marriage and Family Counseling

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration

- EDA 7979: Advanced Research
- EDA 7980: Research for Doctoral Dissertation
- EDA 7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling

- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Mental Health Counseling

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Mental Health Counseling Program Information

The M.Ed./Ed.S. and M.AE./Ed.S. program in Mental Health Counseling is designed to equip students with the pre-professional competencies required for Registered Intern status and, after a minimum number of years of post-degree supervised clinical experience, (a) licensure in the State of Florida as Mental Health Counselors and (b) clinical membership in NBCC's Academy of Certified Clinical Mental Health Counselors. Additionally, some students may choose to continue their studies in a doctoral program. These students often elect the thesis option (M.A.E.) to complete their studies.

Degrees Offered with a Major in Mental Health Counseling

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development

- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Research and Evaluation Methodology

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Research and Evaluation Methodology Program Information

The mission of the Research and Evaluation Methodology program is to generate, evaluate, apply and disseminate knowledge about educational research methodology, to prepare exemplary educational research methodologists, and to collaborate with others to provide methodology for the advancement of educational research. This mission aligns with College of Education's and University of Florida's missions because it results in research strategies for knowledge discovery to solve critical educational and human problems in a diverse global community.

- Learn to evaluate educational programs, analyze educational data, develop assessment instruments, and conduct research about the efficacy of research methodologies.
- Work as an educational researcher, an educational data analyst, or a psychometrician (an expert in testing and assessment).
- Find jobs in testing companies; research and evaluation companies; research centers; and assessment centers at universities, school districts, and state and federal agencies.
- Complete a master's degree (M.A.E. or M.Ed.) in two years or a Ph.D. in four years with classes focusing on research methodology, statistics applied to education, program evaluation, and psychometrics.

- We admit students with some undergraduate research experience. Our students come from a variety of backgrounds, including psychology, sociology, statistics, mathematics, mathematics education, political science, marketing, economics, and engineering

Degrees Offered with a Major in Research and Evaluation Methodology

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Research and Evaluation Methodology

- EDF 5441: Assessment in General and Exceptional Student Education
- EDF 6113: Educational Psychology: Human Development
- EDF 6211: Educational Psychology: General
- EDF 6215: Educational Psychology: Learning Theory
- EDF 6232: Principles of Learning and Instructional Practice
- EDF 6400: Quantitative Foundations of Education Research Overview
- EDF 6401: Educational Statistics
- EDF 6402: Quantitative Foundations in Educational Research: Inferential Statistics
- EDF 6403: Quantitative Foundations of Educational Research
- EDF 6434: Educational Measurement
- EDF 6436: Theory of Measurement
- EDF 6471: Survey Design and Analysis in Educational Research
- EDF 6475: Qualitative Foundations of Educational Research
- EDF 6481: Quantitative Research Methods in Education
- EDF 6905: Individual Study
- EDF 6910: Supervised Research
- EDF 6938: Special Topics
- EDF 6940: Supervised Teaching
- EDF 6941: Practicum in Educational Research
- EDF 6971: Research for Master's Thesis
- EDF 7117: Affective Development and Education
- EDF 7405: Advanced Quantitative Foundations of Educational Research
- EDF 7412: Structural Equation Models
- EDF 7435: Rating Scale Design and Analysis in Educational Research
- EDF 7439: Item Response Theory
- EDF 7474: Multilevel Models
- EDF 7479: Qualitative Data Analysis: Approaches and Techniques
- EDF 7483: Qualitative Data Collection: Approaches and Techniques
- EDF 7486: Methods of Educational Research
- EDF 7491: Evaluation of Educational Products and Systems
- EDF 7639: Research in Educational Sociology
- EDF 7931: Seminar in Educational Research
- EDF 7932: Multivariate Analysis in Educational Research
- EDF 7979: Advanced Research
- EDF 7980: Research for Doctoral Dissertation
- EDP 6052: Cognitive Psychology Applied to Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics

- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research
- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
- EDG7222: Curriculum: Theory and Research
- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments
- EDH6503: Resource Development in Higher Education
- EDH6632: Current Issues in Community College Leadership
- EDH6637: Crisis Management in Higher Education
- EDH6931: Special Topics in Higher Education
- EDH6935: Seminar in College Student Personnel Administration
- EDH6945: Practicum in College Teaching I
- EDH6946: Practicum in College Teaching II
- EDH6947: Practicum in Student Personnel
- EDH7225: Seminar: Curriculum in Higher Education
- EDH7405: The Law and Higher Education
- EDH7505: The Financing of Higher Education
- EDH7631: Administration of Instruction in Higher Education
- EDH7634: Student Affairs Administration in Higher Education
- EDH7635: Higher Education Administration
- EDH7916: Contemporary Research on Higher Education
- EDH7942: Group Supervision in Student Personnel
- EDH7948: Internship in Student Personnel
- EDS6140: Supervision of Instruction
- MHS5005: Introduction to Counseling
- MHS6000: Assessment and Treatment of Family Violence
- MHS6020: Counseling in Community Settings
- MHS6061: Spiritual Issues in Multicultural Counseling
- MHS6071: Diagnosis and Treatment of Mental Disorders
- MHS6200: Assessment in Counseling
- MHS6340: Career Development
- MHS6401: Counseling Theories and Applications
- MHS6421: Play Counseling and Play Process with Children
- MHS6428: Multicultural Counseling
- MHS6430: Introduction to Family Counseling
- MHS6440: Marriage Counseling
- MHS6450: Substance Abuse Counseling
- MHS6464: Introduction to Disaster Mental Health Counseling
- MHS6466: Trauma and Crisis Intervention: Theory and Practice
- MHS6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS6468: Multicultural issues in disaster mental health counseling

- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

School Counseling and Guidance

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

School Counseling and Guidance Program Information

The M.Ed./Ed.S. and M.AE./Ed.S. program in School Counseling is designed to equip students with the pre-professional competencies required for Florida Department of Education Certification in School Counseling. The 72-credit hour program provides students with the specialized knowledge and skills required for placements as school counselors in public or private elementary, middle, or secondary schools.

Students enrolled in the School Counseling program, a state-approved and NCATE (National Council for the Accreditation of Teacher Education) and CACREP (Council for the Accreditation of Counseling and Related Educational Programs) accredited school counselor preparation program, must provide passing scores for all pertinent sections of the Florida Teacher Certification Examination (FTCE) including the General Knowledge test (math, English language skills, reading comprehension, and essay), the Professional Education examination, and the Subject Area Examination in Guidance and Counseling K-12 prior to graduation from the program. Questions about this requirement or any other certification related questions may be addressed to the College of Education Office of Student Services.

Degrees Offered with a Major in School Counseling and Guidance

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research
- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
- EDG7222: Curriculum: Theory and Research
- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments

- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Student Personnel in Higher Education

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Student Personnel in Higher Education Program Information

The University of Florida Student Personnel in Higher Education program is a master's program designed to prepare students to enter Student Affairs leadership positions in two- and four-year institutions of higher education. The program integrates academic coursework with practitioner-based experience. The SPHE master's degree consists of 36 credit hours of core classes and 10 credit hours of supervised practicum and internship experiences (total = 46 credit hours). Students enter the graduate program in the fall semester as members of a cohort group. The group provides support and builds a sense of community for the students. All students are assigned a faculty advisor at the time of admission.

The student affairs profession is increasingly diverse and is engaged in a variety of activities and programs. The emphasis in UF's master's degree program in SPHE is upon the promotion, design, and assessment of student learning in a variety of campus and community settings.

Degrees Offered with a Major in Student Personnel in Higher Education

Master of Arts in Education

Master of Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education

- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs

- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Special Education, School Psychology and Early Childhood Studies Department

Director: Jean Crockett

Complete faculty listing by department: [Follow this link.](#)

The School of Special Education, School Psychology, and Early Childhood Studies offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 3 areas of specialization: Special Education; School Psychology; and Early Childhood Studies. Programs are accredited by the Florida Department of Education and approved by the National Council for Accreditation of Teacher Education (NCATE). The School Psychology program is approved by the NCATE and the National Association of School Psychologists (NASP). The Ph.D. program in School Psychology is accredited by the American Psychological Association (APA).

Other

Early Childhood Education

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in Early Childhood Education

Master of Arts in Education

Master of Education

Early Childhood Education Courses

- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6940: Supervised Teaching
- EEC 7056: Early Childhood Policy and Advocacy
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEC 7979: Advanced Research

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6946: Practicum in Early Childhood Education
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6053: Foundations of Special Education
- EEX 6098: Students with Disabilities in Higher Education
- EEX 6233: Designing Instruction for Inclusive Classrooms
- EEX 6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX 6785: Introduction to Education-Healthcare Transition
- EEX 6786: Transdisciplinary and Transition Services in Special Education
- EEX 6788: Methods for Integrating Education-Health Care Transition
- EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX 6841: Practicum in Special Education: Mild Disabilities
- EEX 6863: Supervised Practice in Special Education
- EEX 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

School Psychology

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in School Psychology

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

School Psychology Courses

- SPS 6052: Issues and Problems in School Psychology
- SPS 6191: Psychoeducational Assessment I
- SPS 6192: Psychoeducational Assessment II
- SPS 6193: Academic Assessment & Intervention
- SPS 6195: Developmental Psychopathology
- SPS 6197: Psychoeducational Assessment III
- SPS 6410: Direct Interventions I: Applied Behavior Analysis for School Psychologists
- SPS 6707: Interventions in School Psychology II: Cognitive Behavioral Interventions
- SPS 6708: Interventions in School Psychology III: System Level Interventions for Children and Youths
- SPS 6815: Law and Ethics in Psychology
- SPS 6937: Special Topics in School Psychology
- SPS 6941: Practicum in School Psychology
- SPS 6942: School Psychology Practicum II
- SPS 6945: Advanced Practicum in School Psychology
- SPS 7205: School Psychology Consultation
- SPS 7931: Seminar in School Psychology
- SPS 7949: Internship in School Psychology
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6946: Practicum in Early Childhood Education
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6053: Foundations of Special Education
- EEX 6098: Students with Disabilities in Higher Education
- EEX 6233: Designing Instruction for Inclusive Classrooms
- EEX 6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX 6785: Introduction to Education-Healthcare Transition
- EEX 6786: Transdisciplinary and Transition Services in Special Education
- EEX 6788: Methods for Integrating Education-Health Care Transition
- EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX 6841: Practicum in Special Education: Mild Disabilities
- EEX 6863: Supervised Practice in Special Education
- EEX 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

Special Education

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in Special Education

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Special Education Courses

- EEX5940: Supervised Student Teaching in Special Education
- EEX6053: Foundations of Special Education
- EEX6072: Accessing Academic and Social Communities for Students with Disabilities
- EEX6125: Interventions for Language and Learning Disabilities
- EEX6219: Reading Assessment and Intervention for Students with Disabilities
- EEX6222: Evaluation in Special Education
- EEX6233: Designing Instruction for Inclusive Classrooms
- EEX6234: Assessment, Curriculum, and Instruction for Students with Severe Disabilities
- EEX6249: Advanced Strategies for Teaching Students with Disabilities
- EEX6661: Teaching and Managing Behavior for Student Learning
- EEX6750: Families and Transition for Students with Disabilities
- EEX6786: Transdisciplinary and Transition Services in Special Education
- EEX6835: Practicum in Special Education: Severe Disabilities
- EEX6841: Practicum in Special Education: Mild Disabilities
- EEX6863: Supervised Practice in Special Education
- EEX6905: Individual Work
- EEX6910: Supervised Research
- EEX6936: Special Topics
- EEX6940: Supervised Teaching
- EEX6971: Research for Master's Thesis
- EEX6973: Project in Lieu of Thesis
- EEX6296: Differentiated Instruction
- EEX7303: Inquiry in Special Education: Analysis of the Literature
- EEX7304: Introduction to Field of Inquiry in Special Education
- EEX7526: Grant Writing Seminar in Education
- EEX7787: School Improvement for All Students
- EEX7865: Internship: Special Education
- EEX7428: Teacher Education in Special Education
- EEX7934: Seminar: Trends in Special Education
- EEX7979: Advanced Research
- EEX7980: Research for Doctoral Dissertation
- EGI6051: Education of the Gifted Child
- EGI6245: Program Development for the Gifted

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EEC6205: Early Childhood Curriculum
- EEC6304: Creativity in the Early Childhood Curriculum
- EEC6525: Issues in Child Care Administration
- EEC6615: Early Childhood Education: Background and Concepts
- EEC6905: Individual Work
- EEC6910: Supervised Research
- EEC6933: Special Topics
- EEC6946: Practicum in Early Childhood Education
- EEC7617: Early Childhood Assessment & Evaluation

- EEC 7666: Theory and Research in Early Childhood Studies
- EEX6053: Foundations of Special Education
- EEX6098: Students with Disabilities in Higher Education
- EEX6233: Designing Instruction for Inclusive Classrooms
- EEX6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX6785: Introduction to Education-Healthcare Transition
- EEX6786: Transdisciplinary and Transition Services in Special Education
- EEX6788: Methods for Integrating Education-Health Care Transition
- EEX6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX6841: Practicum in Special Education: Mild Disabilities
- EEX6863: Supervised Practice in Special Education
- EEX7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

School of Teaching and Learning

Director: E. Bondy.

Graduate Coordinator: S. G. Terzian.

Complete faculty listing by department: [Follow this link.](#)

The School of Teaching and Learning (<http://education.ufl.edu/school>) offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis or project in lieu of thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees in curriculum and instruction. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 10 areas of specialization: curriculum, teaching, and teacher education; educational technology; elementary education; mathematics education; language and literacy education (including children's literature, English education, ESOL/bilingual education, language arts, and reading education); science and environmental education; social foundations of education; social studies education; and teacher leadership for school improvement.

The nationally recognized ProTeach graduate program leads to the M.Ed. degree and state certification as a classroom teacher. Unified Elementary ProTeach admits undergraduates who complete the five-year program with a master's degree. Secondary ProTeach (English, Science, Social Studies) prepares teachers who have completed a bachelor's degree in the discipline they will teach. Prospective elementary teachers who already hold a bachelor's degree in a non-education field may want to consider the School's SITE program (Site-based Implementation of Teacher Education), which leads to the M.Ed. degree in curriculum and instruction. Students may apply to the state for alternative certification.

Beyond the Graduate School and College of Education admission requirements, students should have academic preparation and teaching experience appropriate to the program being pursued. Students having deficiencies in their preparation will be required to follow a program to remove such deficiencies. A limited amount of support is available for graduate studies through fellowships, scholarships, research assistantships, and teaching assistantships.

Other

Curriculum and Instruction (CCD)

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Curriculum and Instruction

Doctor of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty

- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Curriculum and Instruction (ISC)

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Curriculum and Instruction

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
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- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
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Educational Technology

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- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
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- EME 6609: Instructional Design
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- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
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- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

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- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
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- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Elementary Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Elementary Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
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- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
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- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
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Educational Technology

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- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

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Mathematics Education

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- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
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- MAE 7899: Mathematics Education Seminar

Reading Education

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- RED 6346: Seminar in Reading
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- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
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Secondary Education

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Social Studies Education

- SSE 5320: Middle School Social Studies Methods
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Teacher Leadership for School Improvement

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- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

English Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in English Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School

- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School

- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

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- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
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- TSL 5325: Secondary ESOL Teaching Strategies
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- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
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- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades

- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
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- EDG 6953: TLSI Online Portfolio Preparation

Reading Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Reading Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

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General Courses

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- EDG 6356: Teaching, Learning and Assessment
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- EME 6235: Managing Educational Projects
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- EDG 7326: Differentiated Supervision and Teacher Professional Development

- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School

- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Social Studies Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Social Studies Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning

- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
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- EME 6609: Instructional Design
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Science Education

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- SCE 6246: Science Instruction in Informal Settings
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- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

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- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
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- ESE 6939: Special Topics
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- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

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- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Departments and Programs within the College of Engineering

College of Engineering

Dean: C. Abernathy

Complete faculty listings: [Follow this link.](#)

The College of Engineering is organized into a number of departments focusing on today's most pressing engineering questions. There is an interdisciplinary culture at the core of Gator Engineering, though, and researchers regularly collaborate with colleagues in departments and colleges beyond their own.

For more information, please see our website: <http://www.eng.ufl.edu>

[Departments and Programs within the College of Engineering](#)

[College of Engineering Courses](#)

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Other

Agricultural and Biological Engineering (Engineering)

College

- [College of Agricultural and Life Sciences](#)
- [College of Engineering](#)

Department/School

[Agricultural and Biological Engineering Department](#)

Agricultural and Biological Engineering Program

The degrees of Master of Science, Master of Engineering, and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences.

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The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Degrees Offered with a Major in Agricultural and Biological Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Agricultural and Biological Engineering Courses

- ABE 5015: Empirical Models of Crop Growth and Yield Response
- ABE 5038: Recent Developments and Applications in Biosensors
- ABE 5152: Electro-Hydraulic Circuits and Controls
- ABE 5332: Advanced Agricultural Structures
- ABE 5442: Advanced Agricultural Process Engineering
- ABE 5643C: Biological Systems Modeling
- ABE 5646: Biological and Agricultural Systems Simulation
- ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials
- ABE 5663: Advanced Applied Microbial Biotechnology
- ABE 5707C: Agricultural Waste Management
- ABE 5815C: Food and Bioprocess Engineering Design
- ABE 6005: Applied Control for Automation and Robots
- ABE 6031: Instrumentation in Agricultural Engineering Research
- ABE 6035: Advanced Remote Sensing: Science and Sensors
- ABE 6037C: Remote Sensing in Hydrology
- ABE 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6265: Vadose Zone Modeling
- ABE 6266: Nanotechnology in Water Research
- ABE 6615: Advanced Heat and Mass Transfer in Biological Systems
- ABE 6644: Agricultural Decision Systems
- ABE 6816: Food and Bioprocess Sterilization
- ABE 6905: Individual Work in Agricultural and Biological Engineering
- ABE 6910: Supervised Research
- ABE 6931: Seminar
- ABE 6933: Special Topics in Agricultural and Biological Engineering
- ABE 6940: Supervised Teaching
- ABE 6971: Research for Master's Thesis
- ABE 6972: Research for Engineer's Thesis
- ABE 6974: Nonthesis Project
- ABE 6986: Applied Mathematics in Agricultural and Biological Engineering
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- AOM5334C: Agricultural Chemical Application Technology
- AOM5431: GIS and Remote Sensing in Agriculture and Natural Resources
- AOM5435: Advanced Precision Agriculture
- AOM6905: Individual Work in Agricultural Operations Management
- AOM6932: Special Topics in Agricultural Operations Management
- CWR 6536: Stochastic Subsurface Hydrology
- PKG 5003: Advanced Distribution and Transport Packaging
- PKG 5006: Advanced Packaging Principles
- PKG 5105: Advanced Consumer Products Packaging
- PKG 5206C: Advanced Package Decoration
- PKG 5256C: Advanced Analytical Packaging Methods
- PKG 6100: Advanced Computer Tools for Packaging
- PKG 6905: Individual Work in Packaging
- PKG 6932: Special Topics in Packaging Sciences

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Biomedical Engineering Department

Chair: C. Schmidt

Graduate Coordinator: D. Hintenlang

Complete faculty listing by department: [Follow this link.](#)

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine. The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research. The BME Department currently focuses in: neural engineering, biomaterials, tissue engineering, biomechanics, nanomedicine, biomedical imaging and medical physics. A concentration in Medical Physics is available at both the M.S. and Ph.D. level and prepares students for clinical or research careers in medical imaging or radiation therapy. The Medical Physics concentration is fully accredited by CAMPEP. Additional information on admissions requirements, faculty, and research projects is available at: <http://www.bme.ufl.edu>.

BME graduate students are admitted directly through the BME Department. The BME Graduate Academic Committee reviews and makes all decisions regarding admission. Each student's research adviser must hold a Graduate Faculty appointment in the BME Department. Supervisory committees for BME students normally include at least one member from the College of Engineering and one from the College of Medicine to emphasize the need for a clinical focus in the research.

Other

Biomedical Engineering

College

[College of Engineering](#)

Department/School

[Biomedical Engineering Department](#)

Biomedical Engineering Program Information

The master's degree (thesis or nonthesis) requires at least 30 semester hours. The Ph.D. degree requires at least 90 semester credit hours beyond the bachelor's degree. No more than 30 hours of a master's degree from another institution will be transferred to the Ph.D. degree. If a student holds a master's degree in a discipline different from the doctoral program, the master's work will not be counted toward the doctoral degree unless the BME Department successfully petitions the Dean of the Graduate School. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Complete BME program details and courses available are listed in the Biomedical Engineering Graduate Guidelines, on the [BME web site](#) (which also offers information on available areas of study). Graduate-level courses in either the College of Engineering or the College of Medicine may be applied toward the BME degree programs with the approval of the supervisory committee chair and the graduate coordinator.

Combined program: Biomedical Engineering also offers a combined bachelor's/master's degree program in collaboration with the other departments in the College of Engineering. This program allows qualified students to earn both a bachelor's degree and a master's degree within 5 years for a net savings of 1 year. Contact the BME academic services office for more information or see <http://www.bme.ufl.edu/academics/combined>.

Degrees Offered with a Major in Biomedical Engineering

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Medical Physics

Master of Engineering

Master of Science

without a concentration

concentration in Medical Physics

Courses

- BME 5052L: Biomedical Engineering Laboratory
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BME 5407: Molecular Biomedical Engineering
- BME 5500: Biomedical Instrumentation
- BME 5703: Statistical Methods for Biomedical Engineering
- BME 5704: Advanced Computational Methods for Biomedical Engineering
- BME 5937: Special Topics
- BME 6010: Clinical Preceptorship
- BME 6324: Stem Cell Engineering
- BME 6330: Cell and Tissue Engineering
- BME 6360: Neural Engineering
- BME 6502: Introduction to Medical Imaging
- BME 6505: Advanced Diagnostic Radiological Physics
- BME 6522: Biomedical Multivariate Signal Processing
- BME 6533: Radiologic Anatomy
- BME 6534: Advanced Therapeutic Radiological Physics
- BME 6535: Radiological Physics, Measurements and Dosimetry
- BME 6590: Medical Physics
- BME 6591: Therapeutic Radiological Physics I
- BME 6592: Therapeutic Radiological Physics II
- BME 6593: Therapeutic Radiological Physics III
- BME 6705: Mathematical Modeling of Biological and Physiological Systems
- BME 6905: Individual Work in Biomedical Engineering
- BME 6907: BME Project
- BME 6910: Supervised Research
- BME 6936: Biomedical Engineering Seminar
- BME 6938: Special Topics in Biomedical Engineering
- BME 6940: Supervised Teaching
- BME 6971: Research for Master's Thesis
- BME 7979: Advanced Research
- BME 7980: Research for Doctoral Dissertation
- EEE 6504: Adaptive Signal Processing
- EEE 6512: Image Processing and Computer Vision
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology

- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure

College of Engineering and College of Medicine Courses

- [Click here for information about available College of Engineering courses.](#)

Chemical Engineering Department

Chair: R. Dickinson.

Graduate Coordinator: A. Chauhan.

Complete faculty listing by department: [Follow this link.](#)

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering

Other

Chemical Engineering

College

[College of Engineering](#)

Department/School

[Chemical Engineering Department](#)

Degrees Offered with a Major in Chemical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- BME 6221: Biomolecular Cell Mechanics
- BME 6322: Dynamics of Cellular Processes
- ECH 5708: Disinfection, Sterilization, and Preservation
- ECH 5938: Topics in Colloid Science
- ECH 6126: Thermodynamics of Reaction and Phase Equilibria
 - ECH 6207
- ECH 6270: Continuum Basis of Chemical Engineering
- ECH 6272: Molecular Basis of Chemical Engineering
- ECH 6285: Transport Phenomena
- ECH 6326: Computer Control of Processes
- ECH 6506: Chemical Engineering Kinetics
- ECH 6526: Reactor Design and Optimization
- BME 6644: Pharmacokinetics
- ECH 6709: Electrochemical Engineering Fundamentals and Design
- ECH 6726: Interfacial Phenomena I
- ECH 6727: Interfacial Phenomena II
- ECH 6843: Experimental Basis of Chemical Engineering
- ECH 6847: Mathematical Basis of Chemical Engineering
- ECH 6851: Impedance Spectroscopy
- ECH 6905: Individual Work
- ECH 6910: Supervised Research
- ECH 6926: Graduate Seminar
- ECH 6937: Topics in Chemical Engineering I
- ECH 6939: Topics in Chemical Engineering III
- ECH 6940: Supervised Teaching
- ECH 6971: Research for Master's Thesis
 - ECH 6XXX
- ECH 7938: Advanced Special Chemical Engineering Topics for Doctoral Candidates
- ECH 7979: Advanced Research
- ECH 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Civil and Coastal Engineering Department

Chair: K. Hatfield

Graduate Coordinator: A. Drescher

Complete faculty listing by department: [Follow this link.](#)

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in [CGN 6974](#) for civil engineering majors, or [EOC 6905](#) for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Other

Civil Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Civil Engineering Program

The civil engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy. The master's degree in civil engineering is also offered through the Electronic Delivery of Graduate Engineering (EDGE) program, which is a distance learning program delivered either via streaming video or DVD directly to the students. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Civil Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CCE 5035: Construction Planning and Scheduling
- CCE 5405: Construction Equipment and Procedures
- CCE 6037: Civil Engineering Operations I
- CCE 6038: Innovative Construction Techniques
- CCE 6505: Computer Applications in Construction Engineering
- CCE 6507: Computer Applications in Construction Engineering II
- CCE 6516: Topics in Airborne Laser Mapping Technology
- CEG 5105: Geotechnical Engineering
- CEG 5114: Advanced Geotechnical Aspects of Landfill Design
- CEG 5115: Foundation Design
- CEG 5205C: Insitu Measurement of Soil Properties
- CEG 5206: Geosensing I
- CEG 5805: Ground Modification Design
- CEG 6015: Advanced Soil Mechanics
- CEG 6116: Advanced Shallow Foundation Design
- CEG 6117: Advanced Deep Foundation Design
- CEG 6201: Experimental Determination of Soil Properties
- CEG 6207: Geosensing II
- CEG 6405: Seepage in Soils
- CEG 6505: Numerical Methods of Geomechanics
- CEG 6515: Earth Retaining Systems and Slope Stability
- CES 5010: Probabilistic and Stochastic Methods in Civil Engineering
- CES 5116: Finite Elements in Civil Engineering
- CES 5325: Design of Highway Bridges
- CES 5606: Topics in Steel Design
- CES 5607: Behavior of Steel Structures
- CES 5715: Prestressed Concrete
- CES 5726: Design of Concrete Systems
- CES 5801: Design and Construction in Timber
- CES 5835: Design of Reinforced Masonry Structures
- CES 6106: Advanced Structural Analysis
- CES 6108: Structural Dynamics
- CES 6165: Computer Methods in Structural Engineering
- CES 6551: Design of Folded Plates and Shells
- CES 6588: Protective Structures
- CES 6590: Impact Engineering
- CES 6591: Applied Protective Structures
- CES 6592: Retrofit Protective Structures
- CES 6593: Advanced Protective Structures
- CES 6706: Advanced Reinforced Concrete
- CES 6855: Condition Assessment of Structures
- CGN 5606: Public Works Management
- CGN 5715: Experimentation and Instrumentation in Civil Engineering Materials Research
- CGN 6155: Civil Engineering Practice I
- CGN 6156: Construction Engineering II
- CGN 6505: Properties, Design and Control of Concrete
- CGN 6506: Bituminous Materials
- CGN 6525: Sustainable Materials
- CGN 6905: Special Problems in Civil Engineering
- CGN 6910: Supervised Research
- CGN 6936: Civil Engineering Graduate Seminar
- CGN 6940: Supervised Teaching
- CGN 6971: Research for Master's Thesis
- CGN 6972: Research for Engineer's Thesis

- CGN 6974: Master of Engineering or Engineer Degree Report
- CGN 7979: Advanced Research
- CGN 7980: Research for Doctoral Dissertation
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6236: Sediment Transport I
- CWR 6255: Diffusive and Dispersive Transport
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- TTE 5305: Advanced Transportation Systems Analysis
- TTE 5006: Advanced Urban Transportation Planning
- TTE 5256: Traffic Engineering
- TTE 5805: Geometric Design of Transportation Facilities
- TTE 5835: Pavement Design
- TTE 5837: Pavement Management Systems
- TTE 6205: Freeway Operations and Simulation
- TTE 6259: Urban Streets Simulation and Control
- TTE 6267: Traffic Flow Theory
- TTE 6306: Computational Methods in Transportation Engineering
- TTE 6315: Highway Safety Analysis
- TTE 6505: Discrete Choice Analysis
- TTE 6606: Urban Transportation Models

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM5816: Intermediate Fluid Dynamics
- ENV5518: Field Methods in Environmental Hydrology
- ENV5565: Hydraulic Systems Design
- ENV6050: Advanced Pollutant Transport
- ENV6052: Immiscible Fluids in Porous Media
- ENV6441: Water Resources Planning and Management
- ENV6508: Wetland Hydrology
- ENV6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Coastal and Oceanographic Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Coastal and Oceanographic Engineering Program

The coastal and oceanographic engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy degree. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Coastal and Oceanographic Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Coastal and Oceanographic Engineering Courses

- EGM5816: Intermediate Fluid Dynamics
- EOC 5860: Port and Harbor Engineering
- EOC 6196: Littoral Processes
- EOC 6430: Coastal Structures
- EOC 6850: Numerical Simulation Techniques in Coastal and Ocean Engineering
- EOC 6905: Individual Study in Coastal and Oceanographic Engineering
- EOC 6932: Selected Field and Laboratory Problems
- EOC 6934: Advanced Topics in Coastal and Oceanographic Engineering
- EOC 6939: Graduate Seminar
- EOC 6971: Research for Master's Thesis
- EOC 6972: Research for Engineer's Thesis
- EOC 7979: Advanced Research
- EOC 7980: Research for Doctoral Dissertation
- OCP 5293: Coastal Processes
- OCP 6050: Physical Oceanography
- OCP 6165: Ocean Waves I: Linear Theory
- OCP 6165L: Ocean Waves Laboratory
- OCP 6167: Ocean Waves II: Nonlinear Theory
- OCP 6168: Data Analysis Techniques for Coastal and Ocean Engineers
- OCP 6169: Random Sea Analysis
- OCP 6295: Estuarine and Shelf Hydrodynamics I
- OCP 6297: Coastal and Estuarine Sediment Transport
- OCP 6298: Coastal Sediment Transport Processes

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering

- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM 5816: Intermediate Fluid Dynamics
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6441: Water Resources Planning and Management
- ENV 6508: Wetland Hydrology
- ENV 6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Computer and Information Science and Engineering Department

[College of Engineering](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Other

Computer Engineering

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Computer Engineering Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science and the Doctor of Philosophy degrees in Computer Engineering through the College of Engineering. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in Algorithms, Computer Vision, Databases, Graphics and Modeling, Machine Learning, Networks, and Systems, with active labs in Bioinformatics; Computational Science and Intelligence; Vision, Graphics and Medical Imaging; Database Systems Research and Development; Data Science Research; Mobile and Pervasive Computing; Human-Centered Computing; and Cybersecurity.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees Offered with a Major in Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

without a concentration

concentration in Digital Arts and Sciences

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Digital Arts and Sciences (Engineering)

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Digital Arts and Sciences (Engineering) Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science degree in Digital Arts and Sciences through the College of Engineering. Minimum requirements for this degree are given in the [Graduate Degrees](#) section of this catalog.

This specialized program integrates engineering and design and was created for students with an interest in video games, human-computer interaction, 3D modeling and animation, virtual reality, and computer graphics. The curriculum includes core computer science with a special emphasis on human-centered computing and provides students the flexibility to focus on both computer science and design, and to create software that is computationally complex, user friendly and aesthetically pleasing.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees

Master of Science

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms

- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Electrical and Computer Engineering Department

Chair: J. Harris.

Graduate Coordinators: G. Bosman, J. McNair

Complete faculty listing [Follow this link](#).

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For more information about our program, please visit the link below.

Other

Electrical and Computer Engineering

College

[College of Engineering](#)

Department/School

[Electrical and Computer Engineering Department](#)

Electrical and Computer Engineering Program Information

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in computer engineering, devices, electromagnetics and energy systems, electronics, and signals and systems.

Graduate students in the Department of Electrical and Computer Engineering have bachelor's degrees from many areas: electrical engineering, other engineering disciplines, chemistry, mathematics, physics, and other technical fields. The Department of Electrical and Computer Engineering offers both thesis and nonthesis options for the master's degrees.

In the *thesis option* a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of [EEL 6971](#) (Research for Master's Thesis). While the Graduate School sets the minimum requirements, the supervisory committee determines the appropriate number of thesis hours a student shall be required to take for the thesis. Other course requirements include a minimum of 18 hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis). No more than 6 hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)) may be counted toward the degree.

In the nonthesis option a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)). The course requirements include a minimum of 21 semester credit hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis).

The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and master's degree with a saving of one semester. Qualified students may begin their master's programs while seniors, counting up to 12 hours of specified electrical and computer engineering graduate courses for both bachelor's and master's degree requirements. Bachelor's/master's program admission requirements are (1) satisfaction of Graduate School admission requirements for the master's degree, (2) an upper-division (undergraduate) GPA of at least 3.3, and (3) completion of at least 7 EEL core courses and 2 EEL laboratories. Students with a GPA between 3.3 and 3.59 can double count up to 6 hours, while students with a GPA of 3.6 or higher can double count up to 12 hours.

All prospective doctoral students must take the written part of the Ph.D. qualifying examination within the first year of enrollment. Other requirements for the doctoral degree, as well as requirements for master's and engineer degrees, are given in the Electrical and Computer Engineering Department's Graduate Guidelines (see <http://www.ece.ufl.edu/content/graduate-academics>) and in the front section of this catalog.

The following course listing indicates the major areas of faculty interest. Special topics courses [EEL 5934](#) and [EEL 6935](#) cover a wide variety of subjects for which there are no present courses.

Degrees Offered with a Major in Electrical and Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- CNT 6805: Network Science and Applications
- EEE 5317C: Introduction to Power Electronics
- EEE 5320: Bipolar Analog IC Design
- EEE 5322: VLSI Circuits and Technology
- EEE 5364: Fundamentals of Data Converters
- EEE 5400: Future of Microelectronics Technology
- EEE 5405: Microelectronic Fabrication Technologies
- EEE 5426: Introduction to Nanodevices
- EEE 6287: Brain Machine Interface Engineering
- EEE 6321: MOS Analog IC Design
- EEE 6323: Advanced VLSI Design
- EEE 6325: Computer Simulation of Integrated Circuits and Devices
- EEE 6328C: Microwave IC Design
- EEE 6374: Radio Frequency (RF) Integrated Circuits and Technologies
- EEE 6382: Semiconductor Physical Electronics
- EEE 6390: VLSI Device Design
- EEE 6397: Semiconductor Device Theory I
- EEE 6402: Nonclassical Si-Based Nanoscale CMOS Devices
- EEE 6428: Computational Nanoelectronics
- EEE 6431: Carbon Nanotubes
- EEE 6460: Advanced Microsystem Technology
- EEE 6465: Design of MEMS Transducers
- EEL 5182: State Variable Methods in Linear Systems
- EEL 5225: Principles of Micro-Electro-Mechanical Transducers
- EEL 5400: Airborne Sensors and Instrumentation
- EEL 5401: Airborne Laser Scanning: Data Processing and Analysis
- EEL 5441: Fundamentals of Photonics
- EEL 5462: Advanced Antenna Systems
- EEL 5490: Lightning
- EEE 5502: Foundations of Digital Signal Processing
- EEE 5544: Noise in Linear Systems
- EEE 5556: Electronic Countermeasures
- EEL 5666C: Intelligent Machines Design Laboratory
- EEL 5718: Computer Communications
- EEL 5721: Reconfigurable Computing
- EEL 5737: Principles of Computer System Design
- EEL 5764: Computer Architecture
- EEL 5840: Elements of Machine Intelligence
- EEL 5905: Individual Work
- EEL 5934: Special Topics in Electrical Engineering
- EEL 6065: Electrical & Computer Engineering Technical Writing
- EEL 6264: Advanced Electric Energy Systems I
- EEL 6265: Advanced Electric Energy Systems II
- EEL 6443: Integrated and Fiber Optics
- EEL 6486: Electromagnetic Field Theory and Applications I
- EEL 6487: Electromagnetic Field Theory and Applications II
- EEE 6504: Adaptive Signal Processing
- EEL 6507: Queuing Theory and Data Communications
- EEL 6509: Wireless Communication
- EEE 6503: Digital Filtering
- EEL 6532: Information Theory
- EEL 6533: Statistical Decision Theory
- EEL 6535: Digital Communications

- EEL 6537: Spectral Estimation
- EEL 6550: Error Correction Coding
- EEE 6512: Image Processing and Computer Vision
- EEL 6528: Digital Communications with Software-defined Radios
- EEL 6555: Signal Processing for Active Sensing
- EEE 6586: Automatic Speech Processing
- EEL 6588: Wireless Ad Hoc Networks
- EEL 6591: Wireless Networks
- EEL 6614: Modem Control Theory
- EEL 6617: Linear Multivariable Control
- EEL 6619: Robust Control Systems
- EEL 6686: Embedded Systems Seminar
- EEL 6706: Fault-Tolerant Computer Architecture
- EEL 6763: Parallel Computer Architecture
- EEL 6769: Hardware-Software Interactions: Nonnumeric Processing
- EEL 6814: Neural Networks for Signal Processing
- EEL 6825: Pattern Recognition and Intelligent Systems
- EEL 6841: Machine Intelligence and Synthesis
- EEL 6871: Autonomic Computing
- EEL 6892: Virtual Computers
- EEL 6905: Individual Work
- EEL 6910: Supervised Research
- EEL 6933: Electrical and Computer Engineering Graduate Seminar
- EEL 6935: Special Topics in Electrical Engineering
- EEL 6940: Supervised Teaching
- EEL 6971: Research for Master's Thesis
- EEL 6972: Research for Engineer's Thesis
- EEL 7979: Advanced Research
- EEL 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Environmental Engineering Sciences Department

Director: K. Hatfield

Graduate Coordinator: P. Chadik

Complete faculty listing [Follow this link.](#)

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering; Systems Ecology and Ecological Engineering; and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas. Please visit the link below for more information about our program in Environmental Engineering Sciences.

Other

Environmental Engineering Sciences

College

[College of Engineering](#)

Department/School

[Environmental Engineering Sciences Department](#)

Environmental Engineering Sciences Program Information

Graduate study is offered leading to the degrees Master of Engineering, Master of Science, and Doctor of Philosophy in the field of environmental engineering sciences. Our graduate research and education areas are

Air Resources

- Monitoring of air pollutants: indoor, ambient, industrial, and occupational
- Monitoring methodology and instrumentation development
- Formation and fate of air pollutants
- Air quality modeling
- Air pollution control: system, process and materials
- Sustainability of air quality
- Health effects and environmental impact of air pollutant

Biogeochemical Systems

- Green Engineering
- Microbiology of Natural and Engineered Systems
- Environmental Fate and Transport of Pollutants in Soils and Aquatic Systems
- Biological and Chemical Remediation of Contaminated Systems
- Environmental Toxicology and Nanotoxicology
- Effects of Climate and Land Use Changes on Biogeochemical Cycles
- Aqueous Geochemistry and Water Treatment

Environmental Nanotechnology

- Manufacturing and tailoring of nanomaterials and nanodevices for application in environmental and human health research
- Environmental fate and transport of nanomaterials
- Environmental implications of nanomaterials

Solid and Hazardous Waste Management

- Bioreactor Landfills
- Combustion and Thermal Treatment Residuals
- Contaminated Soil Characterization and Treatment
- Construction and Demolition Debris
- Electronic Waste
- Hazardous Waste
- Landfill Design and Operations
- Landfill Gas and Leachate
- Recycling and Beneficial Use of Wastes
- Treated Wood
- Waste Characterization and Leaching
- Solid Waste Management in Developing Countries

Stormwater, Water Supply and Wastewater

- Fundamental characterization of aqueous and particulate-phase contaminants including emerging contaminants: representative ambient monitoring methodology and load quantification.
- Sourcing and generation of aqueous and particulate phase contaminants, physics and chemistry of contaminant transport and fate.
- Water contaminant control: systems, unit operation and processes, and materials development, in particular innovative mass transfer materials and low impact development materials.
- Water reuse as part of the urban water cycle: volumetric and contaminant load impacts
- Unit operation and process modeling: scalable physical models and computational fluid dynamics (CFD).
- Integrated physical, chemical, biological and thermal treatment phenomena for water cycle components.
- Coupling fundamental monitoring and material balance testing with urban water modeling
- Fundamental and applied studies of physical-chemical water treatment processes, such as adsorption, coagulation, ion exchange, and oxidation, for a wide range of water qualities including surface water, groundwater, membrane concentrate, landfill leachate, and human urine.
- Innovative applications of ion exchange for water treatment.
- Fundamental studies in aquatic chemistry with a focus on the role of natural organic matter.
- Fundamental and applied studies of adsorption and photocatalysis, including surface optimization
- Bottom up integrated urban water system simulation and optimization

Sustainability Science & Engineering

- Rational design of nanomaterial through acute and full-life-cycle toxicity assessment
- Life cycle assessment calculations and comparisons of alternative energy and materials options
- Industrial ecology
- Corporate water resources sustainability
- Campus green building codes
- Green laboratory techniques
- Operation of buildings to meet green energy requirements

Systems Ecology and Ecological Engineering

- Ecological Engineering
- Emergy Analysis
- Wetlands ecosystem research
- Ecological Modeling
- Estuarine Systems

Water Resources

- Contaminant transport and fate
- Decision support systems
- Ecohydrology and hydrologic restoration
- Hydrology
- Stormwater control
- Water resources planning and management
- Water conservation
- Urban water infrastructure

Graduate students can also combine one or more of the above areas with specialties in other departments at the University of Florida.

The department participates in the hydrologic sciences interdisciplinary concentration that is offered through 9 departments in 3 colleges. This concentration is described under Interdisciplinary Graduate Studies.

Direct admission into the Master of Science and Doctor of Philosophy programs requires a bachelor's degree in engineering or in a basic science such as chemistry, geology, physics, biology, or mathematics. Persons with a degree in a nontechnical field may also be admitted into this program after completing appropriate technical courses. Direct admission into the Master of Engineering program requires a bachelor's degree in engineering.

Requirements for a master's degree normally take 12 to 24 months to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, and may be completed in 3 years, but often takes longer, depending on prior academic experience.

Concurrent program: The department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree, with a savings of 12 credits.

Joint program: The Environmental Engineering Sciences Department, in partnership with the Levin College of Law, offers a joint program leading to the M.S. or M.E. degree in environmental engineering sciences and the Juris Doctor degree. Twelve credits of appropriate course work are counted toward both degrees.

Degrees Offered with a Major in Environmental Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CEG 5206: Geosensing I
- CWR 6115: Surface Hydrology
- CWR 6116: Advanced Surface Hydrology
- CWR 6252: Environmental Biochemistry of Trace Metals
- CWR 6536: Stochastic Subsurface Hydrology
- CWR 6537: Contaminant Subsurface Hydrology
- EES 5105: Advanced Wastewater Microbiology
- EES 5107: Ecological and Biological Systems
- EES 5207: Environmental Chemistry
- EES 5245: Water Quality Analysis
- EES 5305C: Ecological and General Systems
- EES 5306: Energy Analysis
- EES 5307: Ecological Engineering
- EES 5315: Ecology and the Environment
- EES 5415: Environmental Health
- EES 6007: Advanced Energy and Environment
- EES 6009: Ecological Economics
- EES 6026C: Environmental Systems Dynamics
- EES 6028: Spatial Modeling Using Geographic Information Systems
- EES 6051: Advanced Environmental Planning and Design
- EES 6135: Aquatic Microbiology
- EES 6136: Aquatic Autotrophs
- EES 6137: Aquatic Heterotrophs
- EES 6140: Biology of Exotic Species
- EES 6371: Environmental Meteorology and Oceanography
- EES 6208: Principles of Water Chemistry I
- EES 6209: Principles of Water Chemistry II
- EES 6225: Atmospheric Chemistry
- EES 6246: Advanced Water Analysis
- EES 6301: Comparative Approaches in Systems Ecology
- EES 6308C: Wetland Ecology
- EES 6309: Wetland Treatment Systems
- EES 6318: Principles of Industrial Ecology
- EES 6335: Springs Ecosystems
- EES 6356: Estuarine Systems
- EES 6405: Environmental Toxicology
- ENV 6439: Activated Carbon: Environmental Design and Application
- ENV 5072: Pollution Control and Prevention
- ENV 5075: Environmental Policy
- ENV 5105: Foundations of Air Pollution
- ENV 5305: Advanced Solid Waste Treatment Design
- ENV 5306: Municipal Refuse Disposal
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5520: Fluid Flow in Environmental Systems
- ENV 5555: Wastewater Treatment
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6116: Air Pollution Sampling and Analysis
- ENV 6126: Air Pollution Control Design
- ENV 6130: Aerosol Mechanics
- ENV 6146: Atmospheric Dispersion Modeling
- ENV 6215: Health Physics
- ENV 6216: Radioactive Wastes
- ENV 6301: Advanced Solid Waste Containment Design
- ENV 6435: Advanced Water Treatment Process Design
- ENV 6435C: Advanced Water Treatment Process Design

- ENV6435L: Water Treatment Process Design Laboratory
- ENV6437: Advanced Wastewater System Design
- ENV6438: Advanced Potable Water Systems Design
- ENV6441: Water Resources Planning and Management
- ENV6416: Advanced Stormwater Control Systems
- ENV6508: Wetland Hydrology
- ENV6510: Groundwater Restoration
- ENV6511: Biological Wastewater Treatment
- ENV6556: Advanced Waste Treatment Operations
- ENV6617: Principles of Green Engineering Design and Sustainability
- ENV6905: Individual Work
- ENV6910: Supervised Research
- ENV6916: Nonthesis Project
- ENV6932: Special Problems in Environmental Engineering
- ENV6935: Graduate Environmental Engineering Seminar
- ENV6971: Research for Master's Thesis
- ENV7979: Advanced Research
- ENV7980: Research for Doctoral Dissertation

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM5816: Intermediate Fluid Dynamics
- ENV5518: Field Methods in Environmental Hydrology
- ENV5565: Hydraulic Systems Design
- ENV6050: Advanced Pollutant Transport
- ENV6052: Immiscible Fluids in Porous Media
- ENV6441: Water Resources Planning and Management
- ENV6508: Wetland Hydrology
- ENV6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Industrial and Systems Engineering Department

Chair: J. Geunes.

Graduate Coordinator: J. C. Smith and P. Momcilovic.

Complete faculty listing by department: [Follow this link.](#)

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Engineer degree and the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., Engineer, and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

Other

Industrial and Systems Engineering

College

[College of Engineering](#)

Department/School

[Industrial and Systems Engineering Department](#)

Degrees Offered with a Major in Industrial and Systems Engineering

Doctor of Philosophy

without a concentration

concentration in Quantitative Finance

Engineer

Master of Engineering

Master of Science

Industrial and Systems Engineering Courses

- EIN 6227: Advanced Quality Management and Engineering for Business Processes
- EIN 6336: Advanced Production and Inventory Control
- EIN 6357: Advanced Engineering Economy
- EIN 6367: Facilities Layout and Location
- EIN 6392: Manufacturing Management
- EIN 6905: Special Problems
- EIN 6910: Supervised Research
- EIN 6918: Graduate Seminar
- EIN 6940: Supervised Teaching
- EIN 6971: Research for Master's Thesis
- EIN 6972: Research for Engineer's Thesis
- EIN 7933: Special Problems
- EIN 7979: Advanced Research
- EIN 7980: Research for Doctoral Dissertation
- ESI 5236: Reliability Engineering
- ESI 6162C: Advanced Industrial Applications of Microprocessors
- ESI 6314: Deterministic Methods in Operations Research
- ESI 6321: Applied Probability Methods in Engineering
- ESI 6323: Models for Supply Chain Management
- ESI 6341: Intro to Stochastic Optimization
- ESI 6355: Decision Support Systems for Industrial and Systems Engineers
- ESI 6417: Linear Programming and Network Optimization
- ESI 6418: Linear Programming Extensions and Applications
- ESI 6420: Fundamentals of Mathematical Programming
- ESI 6429: Introduction to Nonlinear Optimization
- ESI 6448: Discrete Optimization Theory

- ESI 6449: Integer Programming
- ESI 6470: Principles of Manufacturing Systems Engineering
- ESI 6492: Global Optimization
- ESI 6529: Digital Simulation Techniques
- ESI 6533: Advanced Simulation Design and Analysis
- ESI 6546: Stochastic Modeling and Analysis
- ESI 6552: Systems Architecture
- ESI 6553: Systems Design
- ESI 6555: Systems Management
- ESI 6912: Advanced Topics in ISE

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Materials Science and Engineering Department

Chair: S. Phillpot

MSE Graduate Coordinator: J. J. Mecholsky, Jr.

NE Graduate Coordinator: E. Dugan

Complete faculty listing by department: [Follow this link.](#)

The Department of Materials Science and Engineering offers the Master of Science and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

The faculties of the Department of Materials Science and Engineering (MSE) of the University of Florida (UF) and the University of Roma Tor Vergata (URTV) have approved a cooperative degree program in Materials Science and Engineering culminating in a Doctor of Philosophy degree, awarded by both universities. Contact the Department for details.

Other

Materials Science and Engineering

College

[College of Engineering](#)

Department/School

[Materials Science and Engineering Department](#)

Degrees Offered with a Major in Materials Science and Engineering

Doctor of Philosophy

without a concentration

in concentration in Clinical and Translational Science

Master of Engineering

Master of Science

Courses

- EMA5008: Particle Science and Technology: Theory and Practice
- EMA5095: Critical Analysis of Research in Materials Science & Engineering
- EMA5108: Vacuum Science and Technology
- EMA5365: Biomimetic Synthesis
- EMA6001: Properties of Materials - A Survey
- EMA6005: Thin and Thick Films
- EMA6105: Fundamentals and Applications of Surface Science
- EMA6106: Advanced Phase Diagrams
- EMA6107: High Temperature Materials
- EMA6109: Physical Chemistry of High Temperature Materials
- EMA6110: Electron Theory of Solids for Materials Scientists I
- EMA6111: Electron Theory of Solids for Materials Scientists II
- EMA6114: Advanced Materials Principles 2
- EMA6128: Materials Microstructures
- EMA6136: Diffusion, Kinetics, and Transport Phenomena
- EMA6165: Polymer Physical Science
- EMA6166: Polymer Composites
- EMA6226: Synthesis and Properties of Metallic Nanostructures
- EMA6227: Advanced Mechanical Metallurgy II
- EMA6265: Mechanical Properties of Polymers
- EMA6313: Advanced Materials Principles I
- EMA6315: Colloidal Hydrodynamics
- EMA6316: Materials Thermodynamics
- EMA6319: Applied Colloid and Interfacial Chemistry for Engineers
- EMA6412: Synthesis and Characterization of Electronic Materials
- EMA6416: Organic Electronics
- EMA6445: Electroceramics
- EMA6446: Solid State Ionics
- EMA6448: Ceramic Processing
- EMA6461: Polymer Characterization
- EMA6507: Scanning Electron Microscopy and Microanalysis
 - EMA 6507C
- EMA6507L: Scanning Electron Microscopy and Microanalysis Lab
- EMA6510: Survey of Materials Analysis Techniques
- EMA6512C: X-ray Scattering for Thin Film Analysis
- EMA6518: Transmission Electron Microscopy
- EMA6518L: Transmission Electron Microscopy Laboratory
- EMA6519L: Specialized Research Techniques in Materials Science
- EMA6540: Fundamentals of Crystallography
- EMA6541: Applied Crystallography and Powder Diffraction
- EMA6580: Science of Biomaterials I
- EMA6581C: Polymeric Biomaterials
- EMA6589: Mechanical Behavior of Biomaterials
- EMA6590: Advances in Biomaterials and Tissue Engineering for Healthcare
- EMA6591: Clinical Applications of Biomaterials and Tissue Engineering

- EMA 6616: Advanced Electronic Materials Processing
- EMA 6625: Advanced Metals Processing
- EMA 6667: Polymer Processing
- EMA 6715: Fracture of Brittle Materials
- EMA 6803: Classical Methods in Computational Materials Science
- EMA 6804: Quantum Methods in Computational Materials Science
- EMA 6805: Mathematical Methods in Materials Science I
- EMA 6806: Mathematical Methods in Materials Science II
- EMA 6808: Error Analysis and Optimization Methodologies in Materials Research
- EMA 6905: Individual Work in Materials Science and Engineering
- EMA 6910: Supervised Research
- EMA 6936: Seminar in Materials Science and Engineering
- EMA 6938: Special Topics in Materials Science and Engineering
- EMA 6971: Research for Master's Thesis
 - EMA 6xxxA
 - EMA 6xxxB
 - EMA 6XXXXL
- EMA 7979: Advanced Research
- EMA 7980: Research for Doctoral Dissertation
- ENU 6805: Introduction to Nuclear Reactor Materials

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn

Graduate Coordinator: D. W. Mikolaitis

Complete faculty listing by department: [Follow this link.](#)

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), Engineer, and Doctor of Philosophy in aerospace engineering and mechanical engineering. Minimum requirements for these degrees are given in the *General Information* section of this catalog. Additional information can be found at <http://www.mae.ufl.edu/graduate>. Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of challenging problems. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Aerospace Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Aerospace Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics
- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
- EAS 6910: Supervised Research
- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
- EGM5533: Applied Elasticity and Advanced Mechanics of Solids
- EGM5584: Biomechanics of Soft Tissue
- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III
- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials
- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
- EGM7980: Research for Doctoral Dissertation
- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics
- EML 5124: Two-Phase Flow and Boiling Heat Transfer
- EML 5131: Combustion
- EML 5215: Analytical Dynamics I
- EML 5223: Structural Dynamics
- EML 5224: Acoustics
- EML 5233: Failure of Materials in Mechanical Design
- EML 5311: Control System Theory
- EML 5318: Computer Control of Machines and Processes
- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers
- EML 5515: Gas Turbines and Jet Engines
- EML 5516: Design of Thermal Systems
- EML 5526: Finite Element Analysis and Application
- EML 5595: Mechanics of the Human Locomotor System
- EML 5598: Orthopedic Biomechanics
- EML 5605: Advanced Refrigeration
- EML 5714: Introduction to Compressible Flow
- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II

- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I
- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control
- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
- EML 6451: Energy Conversion
- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Mechanical Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Mechanical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics

- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
- EAS 6910: Supervised Research
- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
- EGM5533: Applied Elasticity and Advanced Mechanics of Solids
- EGM5584: Biomechanics of Soft Tissue
- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III
- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials
- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
- EGM7980: Research for Doctoral Dissertation
- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics
- EML 5124: Two-Phase Flow and Boiling Heat Transfer
- EML 5131: Combustion
- EML 5215: Analytical Dynamics I
- EML 5223: Structural Dynamics
- EML 5224: Acoustics
- EML 5233: Failure of Materials in Mechanical Design
- EML 5311: Control System Theory
- EML 5318: Computer Control of Machines and Processes
- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers
- EML 5515: Gas Turbines and Jet Engines
- EML 5516: Design of Thermal Systems
- EML 5526: Finite Element Analysis and Application
- EML 5595: Mechanics of the Human Locomotor System
- EML 5598: Orthopedic Biomechanics
- EML 5605: Advanced Refrigeration
- EML 5714: Introduction to Compressible Flow
- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II
- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I
- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control
- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
- EML 6451: Energy Conversion
- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Nuclear and Radiological Engineering Department

Chair: D. Hintenlang

Graduate Coordinator: W. Bolch

Complete faculty listing: [Follow this link.](#)

The Department offers the degrees of Master of Science, Master of Engineering, and Doctor of Philosophy in nuclear engineering sciences with emphases in nuclear power engineering, medical physics, and health physics. Complete descriptions of the minimum requirements for these degrees are provided in the *General Information* section of this catalog.

The medical physics and health physics options are offered through interdepartmental programs in cooperation with the College of Medicine (see the *Health Physics and Medical Physics* description under *Interdisciplinary Graduate Studies*).

Combined Program — The Department also offers a B.S.N.E./M.S. degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students may begin their master's program while seniors counting 12 hours of specified nuclear engineering sciences graduate courses for both the bachelor's and master's degree requirements. Seniors admitted to the combined program are eligible for teaching and research assistantships. Program admission requirements are (1) satisfaction of Graduate School admission requirements for a master's degree, (2) an upper-division (undergraduate) GPA of at least 3.6, and (3) completion of specified bachelor's degree requirements.

The graduate program has two major programs, Nuclear Engineering and Medical Physics. Specific areas of research and study in Nuclear Engineering include advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security. The Medical Physics program is a CAMPEP accredited program designed to meet the professional requirements for a career in clinical service or research and development. Areas of Medical Physics study and research include diagnostic medical imaging, radiation therapy, nuclear medicine imaging, and radiation dosimetry.

The requirement for admission to the graduate program in nuclear engineering sciences is a bachelor's degree in an approved program in engineering or in the sciences. Students applying to the Medical Physics program should have completed the equivalent of at least a minor in physics. If the student's background is considered deficient for the planned course of study, an articulation program of background courses will be required.

Depending on professional objectives, the student may select a non-thesis option for the MS degree and substitute 8 credits of graduate-level course work, of which at least 6 credits are in nuclear engineering sciences, including a 4-credit (minimum) special project, [ENU 6936](#). Completion of 32 credits will meet the minimum requirements for the non-thesis MS degree.

Normally, the requirements for a master's degree can be completed in 12 months. Students in the medical physics option usually take 21 to 24 months to complete the master's degree, which requires 40-42 credit hours. For a master's degree in health physics, a student must complete 42 hours of credit. If articulation work is required, it may take longer, depending upon the extent of the student's deficiency.

Other

Nuclear Engineering Sciences

College

[College of Engineering](#)

Department/School

[Nuclear and Radiological Engineering Department](#)

Degrees Offered with a Major in Nuclear Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

Master of Engineering

Master of Science

Courses

- ENU 5142: Reliability and Risk Analysis for Nuclear Facilities
- ENU 5176L: Principles of Nuclear Reactor Operations Laboratory
- ENU 5186: Nuclear Fuel Cycles
- ENU 5196: Nuclear Reactor Power Plant System Dynamics and Control
- ENU 5516L: Nuclear Engineering Laboratory II
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology
- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 5705: Advanced Concepts for Nuclear Energy
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6053: Radiation Interaction Basics and Applications II
- ENU 6061: Survey of Medical Radiological Physics
- ENU 6106: Nuclear Reactor Analysis I
- ENU 6107: Nuclear Reactor Analysis II
- ENU 6126: Fundamentals of Reactor Kinetics
- ENU 6135: Nuclear Thermal Hydraulics
- ENU 6623: Radiation Dosimetry
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6651: Clinical Rotation in Radiation Therapy
- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6655: Advanced Diagnostic Radiological Physics
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure
- ENU 6835: Nuclear Fuels
- ENU 6905: Individual Work
- ENU 6910: Supervised Research
- ENU 6935: Nuclear and Radiological Engineering Seminar
- ENU 6936: Special Projects in Nuclear and Radiological Engineering Sciences
- ENU 6937: Special Topics in Nuclear and Radiological Engineering Sciences
- ENU 6971: Research for Master's Thesis
- ENU 6972: Research for Engineer's Thesis
- ENU 7979: Advanced Research
- ENU 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Departments and Programs within the College of Health and Human Performance

College of Health and Human Performance

Dean: M. Reid

Complete faculty listings: [Follow this link.](#)

Research and teaching in HHP has an impact on almost every aspect of the human condition. The college's four centers – the [Florida Center for Health Promotion](#), [Center for Exercise Science](#), and the [Eric Friedheim Tourism Institute](#) – as well as its three primary departments – [Applied Physiology and Kinesiology](#), [Health Education and Behavior](#), and [Tourism, Recreation, and Sport Management Department](#) – place the college firmly in a position to influence and improve an array of societal problems and challenges.

For more information about the College of Health and Human Performance, please see our website: <http://hhp.ufl.edu>

[Departments and Programs within the College of Health and Human Performance](#)

[College of Health and Human Performance Courses](#)

Other

Health and Human Performance

College

[College of Health and Human Performance](#)

Health and Human Performance Program Information

The Ph.D. in Health and Human Performance is a single college-wide Ph.D. program with 6 concentrations that are housed and administered by the three departments, according to the following organizational structure:

- **Applied Physiology and Kinesiology (APK):** Ph.D. students in APK study the immediate and lasting effects of exercise and its use in disease prevention and rehabilitation. APK Ph.D. concentrations include Exercise Physiology and Biobehavioral Science, with further specializations in biomechanics, motor control and learning, exercise and performance psychology, and sports medicine / athletic training
- **Health Education & Behavior (HEB):** Ph.D. students in HEB systematically investigate health promotion strategies aimed at modifying behaviors which will improve individual, family, workplace, and community health and well-being. The HEB Ph.D. concentration is in Health Behavior.
- **Tourism, Recreation, and Sport Management (TRSM):** TRSM Ph.D. students study the impact of tourism, recreation activities, professional and amateur sports, ecotourism, parks and beaches on the personal, social, economic, environmental and resource infrastructures of society. Ph.D. concentrations in TRSM include Natural Resource Recreation, Sport Management, and Tourism.

Students are expected to be involved in research throughout their Ph.D. program, which requires approximately three to five years of full-time study for completion. Graduates of the program are trained to assume positions as post-doctoral research scientists, or entry level professorships at colleges and universities throughout the country. The program of study is developed by the student and the supervisory committee based on the student's background, interests, and career goals, as well as faculty expertise. By design, the program is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in their areas of concentration.

For more information, please see our website: <http://gradprograms.hhp.ufl.edu/index.php/doctoral-program>.

Degrees Offered with a Major in Health and Human Performance

Doctor of Philosophy

without a concentration

concentration in Applied Physiology and Kinesiology

optional second concentration in Clinical and Translational Science

concentration in Biobehavioral Science

concentration in Clinical and Translational Science

concentration in Exercise Physiology

concentration in Health Behavior

optional second concentration in Clinical and Translational Science

concentration in Historic Preservation

concentration in Recreation, Parks, and Tourism

concentration in Sport Management

Applied Physiology and Kinesiology Departmental Courses

- APK 5127: Assessment in Exercise Science
- APK 5404: Sport Psychology
- APK 6111L: Practicum in Exercise Physiology
- APK 6116C: Physiological Bases of Exercise and Sport Sciences
- APK 6118: Neuromuscular Adaptation to Exercise
- APK 6126: Cardiopulmonary Pathologies
- APK 6128: EKG Interpretation
- APK 6205C: Nature and Bases of Motor Performance
- APK 6206: Planning Motor Actions
- APK 6210: Controlling Motor Actions
- APK 6225: Biomechanical Instrumentation
- APK 6226C: Biomechanics of Human Motion
- APK 6406: Exercise Psychology
- APK 6408: Performance Enhancement
- APK 6410: Seminar in Exercise Psychology
- APK 6415: Seminar in Sport Psychology: Current Topics
- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- APK 7107: Cardiovascular Exercise Physiology
- APK 7108: Environmental Stress Exercise Physiology
- APK 7117: Exercise Metabolism
- APK 7124: Free Radicals in Aging, Exercise and Disease
- APK 7129: Pulmonary Function during Exercise
- ATR 6124: Clinical Anatomy for the Exercise Sciences
- ATR 6145: Human Pathophysiology for the Exercise Sciences
- ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity
- ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity
- ATR 6304: Rehabilitation and Modalities of Athletic Injuries
- ATR 6624: Athletic Training Research and Technology I
- ATR 6625: Athletic Training Research and Technology II
- ATR 6934: Seminar in Athletic Training
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis

Health Education and Behavior Departmental Courses

- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics

- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- HSC 5135: Emotional Health Education
- HSC 5138: Human Sexuality
- HSC 5142: Drug Education
- HSC 5315C: Teaching Health in Elementary Schools
- HSC 5536C: Medical Terminology for the Health Professions
- HSC 5576: Nutrition Education for Special Populations
- HSC 5606: Spirituality and Health
- HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health
- HSC 5626: Minority Health Issues
- HSC 5657: Health and End-of-Life Issues
- HSC 5925: Seminar in Health Education
- HSC 5956: Writing for Professional Publications
- HSC 6037: Philosophy and Principles of Health Education
- HSC 6216: Environmental Health
- HSC 6235: Patient Health Education
- HSC 6318: Planning Health Education Programs
- HSC 6506: Epidemiology
- HSC 6567: Health Promotion and Programming in Gerontology
- HSC 6571: Contemporary Issues in Health Promotion
- HSC 6575: Women's Health Issues
- HSC 6595: HIV/AIDS Education
- HSC 6603: Theories of Health Behavior and Practice in Health Education
- HSC 6605: Scientific Foundations of Holistic Health
- HSC 6625: Trends in International Health
- HSC 6629: Health Promotion for Priority Populations
- HSC 6637: Social Marketing and Health
- HSC 6646: Community Health Methods in Injury Prevention & Control
- HSC 6665: Health Communication
- HSC 6667: Health Communication Programs
- HSC 6668: Interpersonal Communication and Health
- HSC 6695: Worksite Health Promotion
- HSC 6712: Evaluating Health Education Programs
- HSC 6735: Research Methods in Health Education
- HSC 6850: Internship in Health Education
- HSC 6904: Readings in Health Education
- HSC 6905: Independent Study
- HSC 6910: Supervised Research
- HSC 6935: Current Topics in Health Education
- HSC 6940: Supervised Teaching
- HSC 6971: Research for Master's Thesis
- HSC 6973: Project in Lieu of Thesis
- HSC 7904: Advanced Readings in Health Education
- HSC 7905: Advanced Independent Study in Health Education
- HSC 7937: Advanced Seminar in Health Education
- PEQ 5127: Advanced Instructors of Adapted Aquatics
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- PHC 6105: Health Promotion Policy and Practice

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism

- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM5016: Sport Sociology
- SPM5206: Sport Ethics
- SPM5309: Sport Marketing
- SPM5506: Sport Finance
- SPM5936: Current Topics in Sport Management
- SPM6006: Contemporary Sport Industry
- SPM6036: Research Seminar in Sport Management
- SPM6106: Management and Planning of Sport and Physical Activity Facilities
- SPM6158: Management and Leadership in Sport
- SPM6308: Study of Sport Consumer Behaviors
- SPM6726: Issues in Sport Law
- SPM6905: Directed Independent Study
- SPM6910: Supervised Research
- SPM6947: Graduate Internship in Sport Management
- SPM6948: Advanced Practicum in Sport Management
- SPM6971: Research for Master's Thesis

Applied Physiology and Kinesiology Department

Chair: S. Dodd

Graduate Coordinator: E. Christou

Complete faculty listing by department: [Follow this link.](#)

The **Ph.D. program** is offered with concentrations in biobehavioral science and exercise physiology. Students in the biobehavioral science concentration specialize in one of four areas: biomechanics, exercise / performance psychology, motor control / learning, or sports medicine. These interdisciplinary concentrations focus on preparing students as researchers with a blend of course work and research training.

A program leading to the **Master of Science** degree in applied physiology and kinesiology (thesis and non-thesis options) is also offered. Areas of concentration for the master's program include athletic training/sports medicine, biobehavioral science, clinical exercise physiology, exercise physiology, and human performance. The thesis option gives the student an opportunity to study, conduct research, and prepare a thesis in an area of special interest. The non-thesis option offers the student a specialization in a selected area of study, with additional work in other areas. A comprehensive written examination is required for this option, as is a capstone internship experience. Requirements for these degrees are given in the *General Information* section of this catalog.

Athletic training/sports medicine: This concentration provides comprehensive academic preparation, research, and clinical experience in the areas of injury prevention, assessment, treatment, rehabilitation, and therapeutic modalities.

Biobehavioral Science: This thesis mandatory concentration is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in one of several related disciplines: biomechanics, motor control and learning, and exercise and performance psychology. Each area of specialization is briefly described below.

- *Biomechanics:* The specialization in biomechanics draws from the fields of neuroscience, engineering, and medicine. The course work and training include kinematics and kinetics of movement. Course work also includes anatomy/kinesiology, biomechanics, engineering neuroscience, medicine, psychology, physical therapy, and statistics.
- *Motor learning / control:* This interdisciplinary specialization draws on experiences and a knowledge base in the movement and sport sciences, cognitive sciences, and physical therapy. Students are prepared to conduct research and provide expertise in traditional motor performance and learning settings.
- *Exercise / performance psychology:* This area of specialization provides the basis for understanding and influencing the underlying thought processes and attitudes that will ultimately determine the performance of individuals involved in sport, exercise, and other achievement oriented activities. The primary emphasis is to develop the scientific background and skills necessary for doctoral training and research.

Clinical exercise physiology: The purpose of this non-thesis program is to give students the opportunity to develop advanced knowledge and competencies in Exercise Physiology. Clinical Exercise Physiologists typically practice in hospitals, clinics and wellness centers as part of a health care team that administers tests and develops programs of exercise, counseling, and education for patients with cardiopulmonary, metabolic, and musculoskeletal diseases.

Exercise physiology: This thesis mandatory area of concentration is concerned with the scientific study of how the various physiological systems of the human body respond to physical activity. It is a multidisciplinary field with strong ties to the basic life sciences and medicine, and application to clinical, normal, and athletic populations.

Human performance: This non-thesis master's concentration merges a range of specializations within the Department into a curriculum that provides educational experiences to graduate students interested in studying the factors that determine human performance in both athletic and nonathletic domains. This flexible approach allows students to focus on specific applications that best meet their individual interests. Human performance incorporates components such as nutrition, psychology, motor behavior, and physiology that are applicable to athletic and clinical populations.

Other

Applied Physiology and Kinesiology

College

[College of Health and Human Performance](#)

Department/School

[Applied Physiology and Kinesiology Department](#)

Applied Physiology and Kinesiology Program Information

Graduate study in Applied Physiology and Kinesiology (APK) is focused on research in concentration areas including athletic training biomechanics; motor control and learning exercise physiology; and exercise and performance psychology. Graduate students are exposed to and directly involved in research covering the full multidisciplinary spectrum of human potential from young to old, fit to unfit, healthy to diseased, able-bodied to disabled, and from the casual recreational participant to the high-level athlete. In addition to human performance issues, APK faculty and students study the immediate and lasting effects of exercise and its use in disease prevention and rehabilitation.

For more information, please see our website: <http://apk.hhp.ufl.edu/index.php/current-students/prospective-students>.

Degrees Offered with a Major in Applied Physiology and Kinesiology

Master of Science

without a concentration

concentration in Athletic Training/Sports Medicine

concentration in Biobehavioral Science

concentration in Clinical Exercise Physiology

concentration in Exercise Physiology

concentration in Human Performance

Applied Physiology and Kinesiology Departmental Courses

- APK 5127: Assessment in Exercise Science
- APK 5404: Sport Psychology
- APK 6111L: Practicum in Exercise Physiology
- APK 6116C: Physiological Bases of Exercise and Sport Sciences
- APK 6118: Neuromuscular Adaptation to Exercise
- APK 6126: Cardiopulmonary Pathologies
- APK 6128: EKG Interpretation
- APK 6205C: Nature and Bases of Motor Performance
- APK 6206: Planning Motor Actions
- APK 6210: Controlling Motor Actions
- APK 6225: Biomechanical Instrumentation
- APK 6226C: Biomechanics of Human Motion
- APK 6406: Exercise Psychology

- APK 6408: Performance Enhancement
- APK 6410: Seminar in Exercise Psychology
- APK 6415: Seminar in Sport Psychology: Current Topics
- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- APK 7107: Cardiovascular Exercise Physiology
- APK 7108: Environmental Stress Exercise Physiology
- APK 7117: Exercise Metabolism
- APK 7124: Free Radicals in Aging, Exercise and Disease
- APK 7129: Pulmonary Function during Exercise
- ATR 6124: Clinical Anatomy for the Exercise Sciences
- ATR 6145: Human Pathophysiology for the Exercise Sciences
- ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity
- ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity
- ATR 6304: Rehabilitation and Modalities of Athletic Injuries
- ATR 6624: Athletic Training Research and Technology I
- ATR 6625: Athletic Training Research and Technology II
- ATR 6934: Seminar in Athletic Training
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis

Department of Health Education & Behavior

Chair: Jalie A. Tucker

Graduate Coordinator: Christine B. Stopka

Complete faculty listing by department: [Follow this link.](#)

The Department of Health Education & Behavior offers a Doctor of Philosophy (Ph.D.) in Health and Human Performance with a concentration in Health Behavior, a non-thesis 30-credit hour Master of Science and a 36-credit Master of Science (M.S.) in Health Education and Behavior. Requirements for the Ph.D. and M.S. degrees are given in the *General Information* section of this catalog.

The Ph.D. degree program trains health behavior researchers for academic positions in federal health agencies such as the Centers for Disease Control and Prevention and the National Institutes of Health for postdoctoral research fellowships and for the private sector.

The 30-credit hour, non-thesis M.S. degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector. Full-time students can complete this M.S. option in one year. This degree may also give students unique and distinguishing training experiences when applying to professional schools such as law, medicine, physician assistant, dentistry, chiropractic, osteopathy, nursing, occupational therapy, and physical therapy.

The 36-credit hour project in lieu of thesis, and the 36-credit hour thesis options are designed for students interested in developing research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically can complete these options in about 4 semesters.

The Department also offers an accelerated B.S./M.S. program in health education and behavior to enable students to receive both B.S. and M.S. degrees with a reduction of 12 credits (about one semester of course work).

Students who complete a graduate degree program in the Department of Health Education & Behavior acquire a range of skills required to research, plan, implement, and evaluate health promotion policies and programs aimed at improving the health and well-being of individuals, families, and communities. Specific skills include:

- Conducting needs and capacity assessments to identify health priorities
- Planning, implementing, and evaluating health promotion policies and programs
- Conducting research on questions associated with health problems and their determinants and health promotion policies and programs
- Administering and managing health promotion programs
- Advocating for health promotion policies and programs in schools, communities, health care facilities, and worksites
- Developing social marketing and health communication messages and campaigns
- Researching and developing social media and new media-based health promotion applications
- Serving as a resource person for health information and referrals
- Using a variety of teaching-learning strategies appropriate to the target audience and setting
- Writing scholarly and professional articles
- Working collaboratively with public and private agencies, nongovernmental organizations (NGOs) and the private sector to achieve the goal of a healthier population.

This degree prepares the health promotion specialists and health behavior scientists to work in:

- Local, state, and federal health, education and social agencies
- Nongovernmental health organizations
- Schools and universities
- Healthcare settings
- Private sector

Sample position titles for individuals with this degree include:

- Health education specialist
- Health promotion specialist
- Public health adviser or public health analyst
- Health promotion coordinator or health promotion consultant

- Campus health educator or patient health educator,
- Health communication specialist
- Wellness specialist
- Wellness promotion coordinator
- Prevention specialist

For additional information, visit <http://www.hhp.ufl.edu/heh>.

Other

Health Education and Behavior

College

[College of Health and Human Performance](#)

Department/School

[Department of Health Education & Behavior](#)

Health Education and Behavior Program Information

The 30-credit hour, non-thesis in the Master of Science in Health Education and Behavior degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector.

The 30-credit, non-thesis Pre-Professional Health Science Track is designed for students seeking a career in health care. This option allows you to choose a minimum of 12 credits of basic science elective coursework which are prerequisites for dental, medical, nursing, occupational therapy, physician assistant, physical therapy, and other health professional programs including 6 credits of undergraduate science courses (3000-4999). This degree track prepares students who are interested in graduate studies in the health sciences and or pursuing health professional training. Full-time students can complete the 30-credit hour M.S. options in one year.

The 36-credit Thesis Option, and the 36-credit Project In Lieu Of Thesis Option, in the Master of Science in Health Education and Behavior degree programs are designed for students interested in improving their research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically complete these options in about 4 semesters.

For more information, please see our website: <http://heb.hhp.ufl.edu/index.php/academia/graduate-programs/masters-programs>.

Degrees Offered with a Major in Health Education and Behavior

Master of Science

Health Education and Behavior Departmental Courses

- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- HSC 5135: Emotional Health Education
- HSC 5138: Human Sexuality
- HSC 5142: Drug Education
- HSC 5315C: Teaching Health in Elementary Schools
- HSC 5536C: Medical Terminology for the Health Professions
- HSC 5576: Nutrition Education for Special Populations
- HSC 5606: Spirituality and Health
- HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health
- HSC 5626: Minority Health Issues
- HSC 5657: Health and End-of-Life Issues
- HSC 5925: Seminar in Health Education

- HSC 5956: Writing for Professional Publications
- HSC 6037: Philosophy and Principles of Health Education
- HSC 6216: Environmental Health
- HSC 6235: Patient Health Education
- HSC 6318: Planning Health Education Programs
- HSC 6506: Epidemiology
- HSC 6567: Health Promotion and Programming in Gerontology
- HSC 6571: Contemporary Issues in Health Promotion
- HSC 6575: Women's Health Issues
- HSC 6595: HIV/AIDS Education
- HSC 6603: Theories of Health Behavior and Practice in Health Education
- HSC 6605: Scientific Foundations of Holistic Health
- HSC 6625: Trends in International Health
- HSC 6629: Health Promotion for Priority Populations
- HSC 6637: Social Marketing and Health
- HSC 6646: Community Health Methods in Injury Prevention & Control
- HSC 6665: Health Communication
- HSC 6667: Health Communication Programs
- HSC 6668: Interpersonal Communication and Health
- HSC 6695: Worksite Health Promotion
- HSC 6712: Evaluating Health Education Programs
- HSC 6735: Research Methods in Health Education
- HSC 6850: Internship in Health Education
- HSC 6904: Readings in Health Education
- HSC 6905: Independent Study
- HSC 6910: Supervised Research
- HSC 6935: Current Topics in Health Education
- HSC 6940: Supervised Teaching
- HSC 6971: Research for Master's Thesis
- HSC 6973: Project in Lieu of Thesis
- HSC 7904: Advanced Readings in Health Education
- HSC 7905: Advanced Independent Study in Health Education
- HSC 7937: Advanced Seminar in Health Education
- PEQ 5127: Advanced Instructors of Adapted Aquatics
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- PHC 6105: Health Promotion Policy and Practice

Tourism, Recreation, and Sport Management Department

[College of Health and Human Performance](#)

Chair: Michael Sagas.

Graduate Coordinator: Stephen Holland.

Complete faculty listing: [Follow this link.](#)

The degree Master of Science is offered by the Department of Tourism, Recreation, and Sport Management with programs in sport management and in recreation, parks, and tourism. Both programs offer thesis and non-thesis formats. The Department participates in the Ph.D. program in Health and Human Performance. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Master's program provides advanced preparation of tourism, recreation, and parks and sport management professionals for positions of leadership in planning, developing, administering, and marketing of programs in a variety of employment settings; public and private. Concentrations of study may be developed in a number of areas, such as:

- Natural resource recreation management
- Tourism and commercial recreation
- Campus recreation
- Recreation administration and supervision
- Sport management

The Doctoral program is offered through the College of Health and Human Performance with concentrations in tourism, natural resource recreation and sport management. These interdisciplinary specializations blend course work and research. The curriculum is individualized, and applicants with degrees from unrelated fields can be accepted into the program. However, their previous work will be evaluated and their programs planned according to their individual needs, interests, and career objectives.

Combined program: The Department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of approximately one semester. Up to 12 approved graduate credit hours can be utilized toward both degrees.

MS/MSM Concurrent Degree Program: This joint degree program is offered through the College of Business Administration (Master of Science in Business Management [MSM]) and the College of Health and Human Performance's, Department of Tourism, Recreation and Sport Management (Master of Science in Sport Management [MS]). Applicants must apply to both programs and be admitted to both to participate. The MS/MSM is a non-thesis degree. The MS/MSM is designed for students who seek a graduate business degree and who lack the work experience necessary for admission to the MBA program. The MS/MSM curriculum is similar to the first year of the MBA program, giving students a good foundation in business principles. Concurrent degree students can share up to 9 credit hours of the same coursework towards both degree programs. They do not have to graduate during the same semester. Students admitted into the concurrent program must work closely with both departments to verify all requirements are being met during their course of study.

MS./J.D. joint program: This 98-credit-hour joint degree program culminates in the Master of Science and the Juris Doctor degrees. Applicants must meet the entrance requirements for the Department of Tourism, Recreation, and Sport Management and the College of Law. Admission to the second degree program is required no later than the end of the fourth consecutive semester after beginning one of the degree programs. The student's supervisory committee comprises faculty members from both the Department of Tourism, Recreation, and Sport Management and the College of Law. Students admitted into the joint program are permitted to share up to 12 credit hours of the same coursework towards both degree programs. Students must graduate during the same semester from both programs.

Other

Recreation, Parks, and Tourism

College

[College of Health and Human Performance](#)

Department/School

[Tourism, Recreation, and Sport Management Department](#)

Recreation, Parks, and Tourism Program Information

The Master of Science in Recreation, Parks and Tourism offers the following four areas of concentration:

1. Tourism and Commercial Recreation

- Travel activities to and staying outside one's usual environment; hospitality, transportation
- Recreation activities covered by fees, charges or other non-tax revenues; theme/amusement/water parks, movie theaters, sport/fitness/health clubs, resorts
- Examples of employers include: travel agencies, cruise lines, dance studios, special event companies, resorts, multipurpose sports clubs and health & fitness clubs

2. Natural Resource Recreation

- Park(s) management, protected areas, wilderness conservation
- State parks, river floating, horseback riding, hiking trails
- Beach management, rivers and lakes, sustainability
- Outdoor recreation leadership
- Conservation management, planning, and policy
- Federal agencies (National Parks, U.S. Army Corp of Engineers)

3. Recreation Administration and Supervision

- City/state public parks
- City pools
- City skate parks, family parks
- Public tennis courts
- City sports teams/leagues, youth sports
- Organized group and youth camps
- Military recreation departments (Morale, Welfare & Recreation [MWR] programs)

4. Campus Recreation Programming & Administration

- college campus intramural recreation programs
- campus fitness / exercise centers

Graduates of the Master of Science in Recreation, Parks & Tourism will be trained for middle and/or upper level management positions, in their respective fields mentioned above. Students can choose between three options: 1.) Thesis, or 2.) Non-Thesis Internship, or 3.) Non-Thesis with Paper.

For more information, please see our website: <http://trsm.hhp.ufl.edu/index.php/graduate/masters-programs/recreation-parks-and-tourism>.

Degrees Offered with a Major in Recreation, Parks, and Tourism

Master of Science

without a concentration

concentration in Historic Preservation

concentration in Natural Resource Recreation

concentration in Therapeutic Recreation

concentration in Tourism

concentration in Tropical Conservation and Development

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism
- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM 5016: Sport Sociology
- SPM 5206: Sport Ethics
- SPM 5309: Sport Marketing
- SPM 5506: Sport Finance
- SPM 5936: Current Topics in Sport Management
- SPM 6006: Contemporary Sport Industry
- SPM 6036: Research Seminar in Sport Management
- SPM 6106: Management and Planning of Sport and Physical Activity Facilities
- SPM 6158: Management and Leadership in Sport
- SPM 6308: Study of Sport Consumer Behaviors
- SPM 6726: Issues in Sport Law
- SPM 6905: Directed Independent Study
- SPM 6910: Supervised Research
- SPM 6947: Graduate Internship in Sport Management
- SPM 6948: Advanced Practicum in Sport Management
- SPM 6971: Research for Master's Thesis

Sport Management

College

[College of Health and Human Performance](#)

Department/School

[Tourism, Recreation, and Sport Management Department](#)

Sport Management Program Information

Sport Management integrates concepts of management, marketing, finance and law to apply to sport organizations at various levels and prepares students for a variety of volunteer and employment opportunities at the professional, collegiate, community and amateur level sport entities. Its focus is on the business and organization aspects of sport, not coaching or athletic performance.

For more information, please see our website: <http://trsm.hhp.ufl.edu/index.php/graduate/masters-programs/sport-management>.

Degrees Offered with a Major in Sport Management

Master of Science

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism

- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM5016: Sport Sociology
- SPM5206: Sport Ethics
- SPM5309: Sport Marketing
- SPM5506: Sport Finance
- SPM5936: Current Topics in Sport Management
- SPM6006: Contemporary Sport Industry
- SPM6036: Research Seminar in Sport Management
- SPM6106: Management and Planning of Sport and Physical Activity Facilities
- SPM6158: Management and Leadership in Sport
- SPM6308: Study of Sport Consumer Behaviors
- SPM6726: Issues in Sport Law
- SPM6905: Directed Independent Study
- SPM6910: Supervised Research
- SPM6947: Graduate Internship in Sport Management
- SPM6948: Advanced Practicum in Sport Management
- SPM6971: Research for Master's Thesis

Departments and Programs within the College of Liberal Arts and Sciences

College of Liberal Arts and Sciences

Interim Dean: David Richardson

Complete faculty listings: [Follow this link.](#)

The College of Liberal Arts and Sciences constitutes the intellectual core of the university. Its principal mission is to lead the academic quest to understand our place in the universe, and to help shape our society and environment.

For more information, please see our website: <http://www.clas.ufl.edu>

[Departments and Programs within the College of Liberal Arts and Sciences](#)

[College of Liberal Arts and Sciences Courses](#)

Other

Genetics and Genomics

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Medicine](#)

Genetics and Genomics Program

Chair: C. Mulligan

Graduate Coordinator: J. Bungert

Complete faculty listing: [Follow this link](#)

or visit media.news.health.ufl.edu/misc/mgm/UFGI/search/members-list4.php

The University of Florida Genetics Institute is a multi-college, multi-faceted research center. Good geneticists are integrative geneticists, who incorporate many different subfields of genetics into their work. The core mission is to improve the quality of life of people throughout the world via integrative, genetics-based research. Accordingly, faculty interests and graduate research opportunities include a wide range of areas from advances in gene therapy to understanding the maintenance of genetic variation, from understanding plant immune responses to developing improved algorithms for identifying regulatory motifs in DNA sequences, and from the challenges of bioethics to strategies for controlling malaria.

The highlight of the first year core training is the research rotations program. Student laboratory rotations are a particularly exciting feature of the genetics and genomics doctoral program, and epitomize the philosophy that good geneticists are broadly trained and integrative. Many current Graduate Faculty members still vividly recall the transforming effects of their rotations during graduate school—they didn't always end up where they expected! Rotations can open students' eyes to areas of genetics that they had never considered and entice them into considering brand new career opportunities. Each student will sample the breadth and depth of genetics research at UF by carrying out three 8-week modules consisting of design, implementation, and analysis of genetics experiments. Each rotation is conducted in close association with a Graduate Faculty member. To ensure that students fully experience the impressive breadth of genetics research at UF, their rotations are hosted by Graduate Faculty in at least two different colleges. Students will also take [PCB 5065](#), Advanced Genetics; [GMS 6181](#), Special Topics in Microbiology (among the topics are genomics and bioinformatics, and ethics for genetics research); [STA 6166](#), Statistical Methods I; and other electives as desired. In addition, throughout their tenure in the

program, students participate in the Genetics Seminar, which is an opportunity to present their rotation plans and results of research to faculty and other students.

Prospective students should have strong backgrounds in biology and other hard sciences. Exceptional students with other backgrounds will also be considered. The research statement required as part of the application has a particularly important part in the admissions decision. Each applicant must describe his/her research interests, so that Graduate Faculty can evaluate knowledge of the discipline, fit to the program, and ability to articulate and motivate an interesting research problem. The required letters of recommendation are also extremely important in helping identify applicants with exceptional aptitude for genetics, and with research experience and promise.

For more information, write to the Genetics and Genomics Graduate Program, Attn: Graduate Secretary, Genetics Institute, University of Florida, PO Box 100196, Gainesville, FL 32610-0196.

Expanded information can be found at <http://www.ufgi.ufl.edu>.

Degrees Offered with a Major in Genetics and Genomics

Doctor of Philosophy

Doctor of Philosophy - Clinical and Translational Science

Courses

- AGR 6322: Advanced Plant Breeding
- ANG 6532: Molecular Genetics of Disease
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 7410: Advanced Gene Regulation
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5805: Computer Simulation Concepts
- CIS 6930: Special Topics in CIS
- COT 5405: Analysis of Algorithms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6920: Genetics Journal Colloquy
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- HOS 6201: Breeding Perennial Cultivars
- PCB 5065: Advanced Genetics
- PCB 5235L: Experiments in Immunology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6178: Genetic Data Analysis
- STA 6208: Basic Design and Analysis of Experiments
- STA 6329: Matrix Algebra and Statistical Computing
- STA 6934: Special Topics in Statistics
- STA 7979: Advanced Research
- STA 7980: Research for Doctoral Dissertation
- ZOO 6927: Special Topics in Zoology
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link](#).

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science

- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

Anthropology Department

Chair: S. deFrance

Graduate Coordinator: P. Collings

Complete faculty listing by department: [Follow this link.](#)

The Anthropology Department takes pride in maintaining a holistic perspective, bridging the four traditional fields that have composed the discipline: sociocultural, archaeological, biological, and linguistic anthropology. Both graduate students and faculty conduct research that cut across the four-fields, and extend anthropological investigations into other disciplines.

The graduate program is a mentoring program emphasizing the PhD degree. Students are mentored by faculty advisors, together with supervisory committees chosen by students with the advice of advisors. Graduate students are expected to be in residence to attend classes and seminars, and receive individualized training. Distance-education graduate degrees are not offered. Students formally report on their progress each year, and the progress of each graduate student is evaluated by the faculty in their primary field.

Students receiving graduate degrees are well-prepared intellectually and professionally for success in a wide variety of careers, and become leaders in developing the next generation of anthropology. The department offers teaching experience and resources for presenting conference papers, submitting grant proposals, conducting fieldwork, and other activities appropriate to their professionalization. Graduate students are welcome to contribute to discussions in departmental meetings, and serve on some departmental committees.

Other

Anthropology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Anthropology Department](#)

Anthropology Program

The department of Anthropology offers graduate work leading to the Master of Arts (thesis or nonthesis option) and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog. For more information, visit the departmental website: <http://anthro.ufl.edu>. Graduate training is offered in cultural anthropology, archeology, and biological anthropology.

Each graduate student should specify a major field of study among the four fields of anthropology. In addition, each must choose one of three tracks: the specialized track in which a student focuses on one field of anthropology, the multifield track in which a student combines two fields, or the interdisciplinary track in which a student adds study in a second discipline to anthropology. Knowledge of a foreign language or of statistics may be required by the student's supervisory committee.

The department generally requires applicants to have acceptable scores on the GRE (verbal and quantitative portions) and a 3.2 overall grade point average based on a 4.0 system. Previous work in anthropology is an asset but not a strict requirement for admission. Potential applicants are urged to visit the website to familiarize themselves with the specializations of our faculty and to indicate in their application those faculty with whom they might work. Barring special circumstances, the Department restricts admission to applicants interested in earning a Ph.D. Entering students who have earned a master's degree may apply for direct admission to the doctoral program. Students who enter without an M.A. will generally work for their M.A. on the way to the Ph.D. This requires either a formally-defended thesis or written comprehensive exams combined with a high-quality paper or research report. With their adviser's permission, they may opt to bypass the M.A.

Students enrolled in the M.A. program who wish to continue their studies for a Ph.D. must apply to the Department for certification.

New students are admitted into the graduate program only in the fall of each academic year. The deadline for receiving completed applications for admission into the graduate program is December 15, though the department encourages early applications.

Degrees Offered with a Major in Anthropology

Doctor of Philosophy

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

Master of Arts in Teaching

without a concentration

concentration in Tropical Conservation and Development

Courses

- ANG 5012: Fantastic Anthropology and Fringe Science
- ANG 5085: Collection and Analysis of Visual Data in Anthropology
- ANG 5126: Zooarcheology
- ANG 5158: Florida Archeology
- ANG 5162: Maya Archeoastronomy and Ethnoastronomy
- ANG 5164: The Inca and Their Ancestors
- ANG 5172: Historical Archeology
- ANG 5194: Principles of Archeology
- ANG 5255: Rural Peoples in the Modern World
- ANG 5265: Methods in Ethnoecology
- ANG 5266: Economic Anthropology
- ANG 5303: Women and Development
- ANG 5310: The North American Indian
- ANG 5323: Peoples of Mexico and Central America
- ANG 5327: Maya and Aztec Civilizations
- ANG 5330: The Tribal Peoples of Lowland South America
- ANG 5331: Peoples of the Andes
- ANG 5336: The Peoples of Brazil
- ANG 5341: Anthropology of the Caribbean
- ANG 5352: Peoples of Africa
- ANG 5354: Anthropology of Modern Africa
- ANG 5395: Visual Anthropology
- ANG 5420: Social Network Analysis in Cultural Anthropology
- ANG 5426: Kinship and Social Organization
- ANG 5464: Culture and Aging
- ANG 5485: Research Design in Anthropology
- ANG 5486: Computing for Anthropologists
- ANG 5488: Geospatial Analysis in Cultural Anthropology
- ANG 5525: Human Osteology and Osteometry
- ANG 5531: Culture and Nutrition
- ANG 5546: Seminar: Human Biology and Behavior
- ANG 5620: Language and Culture
- ANG 5621: Proseminar in Cultural and Linguistic Anthropology
- ANG 5700: Applied Anthropology
- ANG 5702: Anthropology and Development
- ANG 5711: Culture and International Business
- ANG 5743: Human Rights Missions in Forensic Anthropology
- ANG 5744: International Forensic Fieldwork in Human Rights
- ANG 5824L: Field Sessions in Archeology
- ANG 6034: Seminar in Anthropological History and Theory
- ANG 6086: Historical Ecology
- ANG 6091: Research Strategies in Anthropology
- ANG 6110: Archaeological Theory
- ANG 6112: Critical Archaeology of Time
- ANG 6113: Ideology and Symbolic Approaches in Archaeology
- ANG 6120C: Environmental Archaeology
- ANG 6122C: Archaeological Ceramics
- ANG 6128: Lithic Technology
- ANG 6146: Archaeology of Maritime Adaptations
- ANG 6155: Southeastern U.S. Prehistory
- ANG 6161: Problems in Caribbean Prehistory
- ANG 6165: Problems in South American Archaeology
- ANG 6183: Laboratory Training in Archeology
- ANG 6185: Ethnoarchaeology
- ANG 6186: Seminar in Archeology
- ANG 6187: Experimental Archaeology
- ANG 6190: Seminar in Contemporary Methods
- ANG 6191: Archaeology of Death
- ANG 6224: Painted Books of Ancient Mexico: Codices of Aztecs, Mixtecs, and Mayas
- ANG 6241: Special Topics in Ecology of Religion

- ANG 6267: Anthropology, Geographic Information System, and Human Ecosystems
- ANG 6273: Legal Anthropology
- ANG 6274: Principles of Political Anthropology
- ANG 6286: Seminar in Contemporary Theory
- ANG 6304: Seminar in Gender and International Development
- ANG 6314: Peoples of the Arctic
- ANG 6351: Peoples and Culture in Southern Africa
- ANG 6360: Ethnicity in China
- ANG 6366: Family, Gender, and Population in China
- ANG 6407: Sickness and Power
- ANG 6421: Landscape, Place, Dwelling
- ANG 6452: Race and Racism in Anthropological Theory
- ANG 6453: Human Rights in Cross-Cultural Perspective
- ANG 6478: Evolution of Culture
- ANG 6481: Research Methods in Cognitive Anthropology
- ANG 6483L: Anthropology of Science
- ANG 6511: Seminar in Physical Anthropology
- ANG 6514: Human Origins
- ANG 6524: Skeletal Mechanics in Biological Anthropology
- ANG 6532: Molecular Genetics of Disease
- ANG 6547: Human Adaptation
- ANG 6552: Primate Behavior
- ANG 6553: Primate Cognition
- ANG 6555: Issues in Evolutionary Anthropology
- ANG 6583: Primate Functional Morphology
- ANG 6591L: Advanced Molecular Anthropology Laboratory
- ANG 6592: Seminar in Molecular Anthropology
- ANG 6593L: Biological Anthropology Laboratory
- ANG 6701: Seminar on Applied Anthropology
- ANG 6737: Medical Anthropology
- ANG 6740: Advanced Techniques in Forensic Anthropology
- ANG 6801: Ethnographic Field Methods
- ANG 6905: Individual Work
- ANG 6910: Supervised Research
- ANG 6915: Research Projects in Social, Cultural, and Applied Anthropology
- ANG 6917: Professions of Anthropology
- ANG 6930: Special Topics in Anthropology
- ANG 6940: Supervised Teaching
- ANG 6945: Internship in Anthropology
- ANG 6971: Research for Master's Thesis
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation

Astronomy Department

Chair: C. Telesco

Graduate Coordinator: V. Sarajedini.

Complete faculty listing by department: [Follow this link.](#)

The University of Florida's Astronomy Department is one of the largest in the country. Research is an integral part of the graduate program. Students have opportunities to work with faculty and staff on a broad range of astronomical problems using in-house, national and international, and ground- and space-based facilities. Support for graduate studies is available through fellowships, research assistantships, and teaching assistantships. For more information on the program, please follow the link below or visit [our website](#).

Other

Astronomy

College

[College of Liberal Arts and Sciences](#)

Department/School

[Astronomy Department](#)

Astronomy Program Information

The Astronomy Department offers graduate programs leading to the M.S., M.S.T. or Ph.D. degrees in astronomy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Planetary Systems: Observational and theoretical studies concentrate in the areas of planet formation, the dynamical evolution of planetary systems and the detection and characterization of extrasolar planets. Members of the department are active in Kepler Mission and ground-based Dopple surveys to identify extrasolar planets. Researchers are also active in studying the origins and orbital evolution of interplanetary dust and small bodies in the solar system and around nearby stars.

Stellar populations: Observational studies concentrate on resolved stars in the Milky Way and nearby galaxies. Studies of particular classes of stars include various types of binary stars and blue stragglers. The goal of these studies is to apply our theoretical understanding of stellar structure and evolution to the properties of stars in a variety of environments.

Origins of stars and planets: Observational studies focus on the properties of giant molecular clouds, the collapse of molecular cloud cores, the formation of stars in clusters and in isolation, and the formation and evolution of circumstellar and protoplanetary disks. The department is active in several star formation surveys, involving many international ground- and space-based facilities. Theoretical studies emphasize the development of analytic models and numerical simulations, as well as their testing against observational constraints.

Structure and evolution of galaxies: Observational programs use multi-wavelength photometry of stars and star clusters in galaxies throughout the Local Group and in nearby groups, including the Milky Way, to study galaxy evolution. Other observations focus on the structure and dynamics of galaxies and their interstellar medium using neutral hydrogen (HI) and molecules such as carbon monoxide.

Extragalactic astronomy and cosmology: Observational programs investigate the nature of ultra-luminous galaxies, active galactic nuclei (AGNs), and the formation and chemical evolution of distant galaxies and clusters of galaxies. Theoretical investigations focus on the emission/absorption features in AGN spectra, the star-formation and chemical-evolution properties of galaxies, and applications of general relativity and particle physics to conditions in the very early universe.

Instrumentation programs: The UF Infrared Astrophysics Laboratory is a world leader in designing and constructing advanced near-infrared and mid-infrared instrumentation for major telescopes around the world, including the 8m Gemini North and South Telescopes and the 10m Gran Telescopio Canarias. Instrumentation is also developed in the area of high precision Doppler techniques for planet searches and the development of high contrast imaging techniques for direct imaging of extrasolar planets.

Computing facilities: The Astronomy Department maintains a network of high-performance computers running Linux and OS-X. The local network is maintained by a full-time systems manager. Astronomy students have access to supercomputing facilities maintained by the UF High Performance Computing Center, including thousands of CPU cores with high-performance networking.

Degrees Offered with a Major in Astronomy

Doctor of Philosophy

Master of Science

Master of Science in Teaching

Courses

- AST 5113: Solar System Astrophysics I
- AST 5114: Solar System Astrophysics II
- AST 6112: Solar System Astrophysics
- AST 6215: Stellar Structure and Function
- AST 6245: Stellar Atmospheres and Radiative Processes
- AST 6309: Galactic and Extragalactic Astronomy
- AST 6336: Interstellar Matter
- AST 6415: Observational Cosmology
- AST 6416: Physical Cosmology
- AST 6506: Celestial Mechanics
- AST 6725C: Observational Techniques
- AST 6905: Individual Work
- AST 6910: Supervised Research
- AST 6925: Departmental Colloquium
- AST 6935: Frontiers in Astronomy
- AST 6936: Astronomy Journal Club
- AST 6971: Research for Master's Thesis
- AST 7939: Special Topics
- AST 7979: Advanced Research
- AST 7980: Research for Doctoral Dissertation

Biology Department

[College of Liberal Arts and Sciences](#)

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

Complete faculty listing by department: [Follow this link.](#)

The Department of Biology offers two graduate programs: Botany and Zoology. Both programs offer graduate work leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

More information regarding these programs is available by following the links below and by visiting our departmental website: <http://www.biology.ufl.edu>.

Other

Botany

College

[College of Liberal Arts and Sciences](#)

Department/School

[Biology Department](#)

Botany Program Information

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

The Department of Biology offers graduate work in Botany leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Department offers studies in the areas of biochemistry, molecular biology, cell biology, physiology, ecology, systematics, and evolution. Specific areas of specialization include anatomy/morphology with emphasis on extant and fossil vascular plants; ecology and environmental studies including ecosystem ecology, conservation biology and genetics, fire ecology, exotic invasive species, and tropical botany and ecology; cell biology with emphasis on the cytoskeleton and cell morphogenesis; physiology, biochemistry, and molecular biology with emphasis on photosynthesis, growth and development of angiosperms, protein phosphorylation and signal transduction, global analysis of spatial patterns of gene expression; plant secondary metabolism and proteomics; systematics with emphasis on DNA- and morphology-based phylogenetic analyses, phylogeographic studies, molecular evolution/development, and monographic and floristic studies. To be considered for admission to graduate studies, students should have:

- The equivalent of an undergraduate degree in botany or biology with basic course work in their area of interest
- Acceptable GRE scores (verbal, quantitative, and analytical writing)
- Letters of recommendation
- International students must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program. The program of graduate study for each student will be determined by a supervisory committee, and deficiencies in background coursework will be made up early in the graduate program. No more than 9 credits of BOT 6905 may be used to satisfy the credit requirements for a master's degree.

Degrees Offered with a Major in Botany

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography

- PLP 6656C: Fungal Biology

Zoology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Biology Department](#)

Zoology Program Info

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

The Department of Biology offers graduate programs in Zoology leading to the Master of Science in Teaching, Master of Science, and Doctor of Philosophy degrees. The requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog.

Our program emphasizes Integrative Biology, with integration accomplished through a focus on the theoretical foundations provided by evolutionary biology and ecology. Our faculty has expertise in ecology, evolution, behavior, comparative and environmental physiology, genetics, development, and phylogenetics. We work in a variety of terrestrial and aquatic environments and geographic regions (tropics through subpolar), and on a range of organisms (including plants). Our faculty value integrative research (e.g., by crossing levels of organization from gene expressions to species interactions), linking theory with data (through use of statistical and mathematical tools), and using natural history to guide the development and testing of rigorous conceptual frameworks. Many of our faculty also are interested in applying and testing basic science in applied contexts (e.g., conservation biology and ecotoxicology).

Our approach is highlighted through our first-year, required, graduate course, Integrative Principles. Each student's supervisory committee will recommend additional courses according to the academic background and research plans of the student.

Degrees Offered with a Major in Zoology

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Zoology Courses

- BOT 6726C: Principles of Systematic Biology
- PCB 5307C: Limnology
- PCB 5415C: Behavioral Ecology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6049: Seminar in Ecology
- PCB 6377C: Physiological Ecology of Vertebrates
- PCB 6447C: Community Ecology
- PCB 6675C: Evolutionary Biogeography
- PCB 6695: Seminar in Evolutionary Biology
- ZOO 5115C: Vertebrate Paleontology
- ZOO 5486C: Mammalogy
- ZOO 6005: Integrative Principles of Zoology I
- ZOO 6308: Dynamic Optimization Modeling in Behavioral and Evolutionary Ecology
- ZOO 6406: Biology of Sea Turtles
- ZOO 6456C: Ichthyology
- ZOO 6542: Nutritional Ecology
- ZOO 6905: Individual Studies
- ZOO 6910: Supervised Research
- ZOO 6920: Zoology Colloquium
- ZOO 6927: Special Topics in Zoology
- ZOO 6931: Seminar in Marine Turtle Biology
- ZOO 6939: Seminar in Animal Behavior
- ZOO 6971: Research for Master's Thesis
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

Chemistry Department

Chair: W. Dolbier

Graduate Coordinator: B. W. Smith

Complete faculty listing: [Follow this link.](#)

The Department of Chemistry granted its first master's degree in 1909 and the first Ph.D. in 1930. Specializations in biochemistry, organic, physical, inorganic and analytical are offered with extensive interdisciplinary research opportunities (e.g., bio/nano-science, particle science, green chemistry, polymer chemistry, chemical physics, health related biochemistry, chemistry-engineering, and genomics).

The Department presently offers the Master of Science and Doctor of Philosophy degrees with a major in chemistry. The non-thesis Master of Science in Teaching degree is also offered with a major in chemistry.

Other

Chemistry

College

[College of Liberal Arts and Sciences](#)

Department/School

[Chemistry Department](#)

Chemistry Program

The department offers the Master of Science (thesis or nonthesis) and Doctor of Philosophy degrees with a major in chemistry and specialization in biochemistry, analytical, organic, inorganic, or physical chemistry. The nonthesis degree Master of Science in Teaching is also offered with a major in chemistry. New graduate students should have adequate undergraduate training in inorganic, analytical, organic, and physical chemistry. Normally this will include as a minimum a year of general chemistry, one semester of quantitative analysis, one year of organic chemistry, one year of physical chemistry, and one semester of advanced inorganic chemistry. Additional courses in instrumental analysis, biochemistry, and advanced physical and organic chemistry are desirable. Deficiencies in any of these areas may be corrected during the first year of graduate study. Such deficiencies are determined by a series of placement tests given prior to registration, and the results of these tests are used in planning the student's program. Doctoral candidates are required to complete at least 9 semester credits of courses specified by the division of the Chemistry Department in which they choose to specialize, as well as at least 9 semester credits of out-of-major-division courses. There are some minor restrictions on courses that may be used to meet this requirement. Additional courses may be required by the student's supervisory committee or major professor.

Ph.D. candidates must serve not less than one year as teaching assistants. This requirement will be waived only when, in the opinion of the department, unusual circumstances justify such action. A chemical physics option is offered for students who will be doing research in areas of physical chemistry which require a strong background in physics. For this option, a student meets the departmental requirements for concentration in physical chemistry, except that only one out-of-major division course is required. In addition, a minimum of 14 credits in 4000 level or higher physics courses or a minimum of 7 such credits in physics and 7 in 4000 level or higher mathematics courses is required. Candidates for the master's degree are required to complete any two core courses. The Master of Science degree in chemistry has both thesis and nonthesis options. The nonthesis degree Master of Science in Teaching is offered with a major in chemistry and requires a written paper of substantial length (30 to 50 pages) on an approved topic pertaining to some phase of chemistry, under the course [CHM 6905](#).

Degrees Offered with a Major in Chemistry

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Imaging Science and Technology

Master of Science

Master of Science in Teaching

Courses

- CHM5224: Basic Principles for Organic Chemistry
- CHM5235: Organic Spectroscopy
- CHM5275: The Organic Chemistry of Polymers
- CHM5305: Chemistry of Biological Molecules
- CHM5413L: Advanced Physical Chemistry Laboratory
- CHM5511: Physical Chemistry of Polymers
- CHM6036: Chemical Biology
- CHM6037: Chemical Biology and Biochemistry Seminar
- CHM6153: Electrochemical Processes
- CHM6154: Chemical Separations
- CHM6155: Spectrochemical Methods
- CHM6158C: Electronics and Instrumentation
- CHM6159: Mass Spectrometric Methods
- CHM6165: Chemometrics
- CHM6180: Special Topics in Analytical Chemistry
- CHM6190: Analytical Chemistry Seminar
- CHM6225: Advanced Principles of Organic Chemistry
- CHM6226: Advanced Synthetic Organic Chemistry
- CHM6227: Topics in Synthetic Organic Chemistry
- CHM6251: Organometallic Compounds
- CHM6271: The Chemistry of High Polymers
- CHM6301: Enzyme Mechanisms
- CHM6302: Chemistry and Biology of Nucleic Acids
- CHM6303: Methods in Computational Biochemistry and Structural Biology
- CHM6306: Special Topics in Biological Chemistry Mechanisms
- CHM6381: Special Topics in Organic Chemistry
- CHM6390: Organic Chemistry Seminar Presentation
- CHM6391: Organic Chemistry Seminar Discussion
- CHM6430: Chemical Thermodynamics
- CHM6461: Statistical Thermodynamics
- CHM6470: Chemical Bonding and Spectra I
- CHM6471: Chemical Bonding and Spectra II
- CHM6480: Elements of Quantum Chemistry
- CHM6490: Theory of Molecular Spectroscopy
- CHM6520: Chemical Physics
- CHM6580: Special Topics in Physical Chemistry
- CHM6586: Computational Chemistry
- CHM6590: Physical Chemistry Seminar
- CHM6620: Advanced Inorganic Chemistry I
- CHM6621: Advanced Inorganic Chemistry II
- CHM6626: Applications of Physical Methods in Inorganic Chemistry
- CHM6628: Chemistry of Solid Materials
- CHM6670: Inorganic Biochemistry
- CHM6680: Special Topics in Inorganic Chemistry
- CHM6690: Inorganic Chemistry Seminar
- CHM6720: Chemical Dynamics
- CHM6905: Individual Problems, Advanced
- CHM6910: Supervised Research
- CHM6934: Advanced Topics in Chemistry
- CHM6935: Chemistry Colloquium
- CHM6943: Internship in College Teaching
- CHM6971: Research for Master's Thesis
- CHM7485: Special Topics in Theory of Atomic and Molecular Structure
- CHM7979: Advanced Research
- CHM7980: Research for Doctoral Dissertation
- CHS 5110L: Radiochemistry Laboratory

Classics Department

Chair: Victoria Pagin.

Graduate Coordinator: Jennifer Rea.

Complete faculty listing: [Follow this link.](#)

The department offers the following degrees and programs: the Doctor of Philosophy in classical studies; the Master of Arts degree in classical studies or Latin; the Master of Latin degree, and the Master of Arts in Teaching degree in Latin. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Within the Ph.D. program are three tracks:

- Philology (prepares students for careers in colleges and universities)
- Classical civilization (available via distance course work)
- Latin and Roman studies (available via distance course work).

Requirements for the philology track of the doctoral degree include:

- 60 credit hours after the M.A. (or a total of 90 credit hours)
- Five additional seminars after the M.A. in classics at the 500 level or higher

- Three of the following seminars: [GRE 6425](#), [GRW 6105](#), [LAT 6425](#), [LNW 6105](#), and [CLA 6805](#)
- A reading knowledge of two modern languages, one of which must be German
- Reading lists in Greek and Roman authors
- Supervised experience in teaching Latin, Greek, or civilization courses is advised
- Successful completion of a series of qualifying examinations appropriate to the chosen specialization (Greek reading: Latin reading: classical Greek literature in its historical context; classical Latin literature in its historical context; special author/topic)
- An oral preliminary examination, dissertation, and final examination

The M.A. degree in classical studies is recommended for students who plan to continue on to the doctoral level. The M.A. degree in Latin is recommended for students who plan to pursue a career in secondary teaching. Both M.A. programs require 30 credit hours, including 6 credits of [GRW 6971](#) or [LNW 6971](#), a thesis, and final examination.

The Master of Latin degree is a non-thesis degree, designed for currently employed and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of classics, and enhance their professional qualifications through a program of summer course work and directed independent study and/or distance learning courses during the regular academic year. The Master of Arts in Teaching, a non-thesis degree, is offered with a program in Latin and is intended for students preparing to teach in community colleges or high schools.

Other

Classical Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Classics Department](#)

Classical Studies Program Information

(The following information refers only to our on-campus programs. Please visit the [Distance Learning Homepage](#) for further details on our Distance Learning programs, especially aimed at elementary, secondary, or community college teachers.)

Ph.D. in Classical Studies

The Ph.D. program in classical studies is a traditional course of study in Greek and Latin language and literature that prepares students for careers in research and teaching at colleges and universities. Students awarded a TA position receive a stipend plus a full tuition waiver. The University also offers competitive fellowships. The department routinely provides research fellowships for its Ph.D. candidates. Department awards are also available for study abroad opportunities. Students are expected to become Florida residents after one year.

M.A. in Classical Studies

The Department of Classics at the University of Florida offers an M.A. degree in Classical Studies. Students awarded a TA position receive a stipend plus a full tuition waiver. Students are expected to become Florida residents after one year.

The **Master of Arts in Classical Studies** is recommended for students who plan to continue their studies at the doctoral level

For minimum degree requirements, see the [Graduate Degrees](#) section of the catalog. For additional requirements, please see the department website: <http://classics.ufl.edu>.

Admissions Requirements to the Classical Studies Programs:

Admission into the university and the program for Classics is ultimately determined and granted according to the rules established by the Graduate School of the University of Florida (see the Graduate Catalog).

Submission of Graduate Record Examination (GRE) scores, with a minimum score of 1000 (combined verbal and quantitative). Competitive applicants for funding awards from the department typically have a combined score of at least 1200.

Ph.D. program (Level II) requirements include:

1. M.A. in Classics or the equivalent.
2. A GPA of at least 3.25 in previous graduate work, and an undergraduate average of at least 3.0.
3. Demonstrated reading knowledge of German, French, Italian or Modern Greek (competency in the second language to be demonstrated before the completion of the second year at Level II).
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the applicant's record gives evidence of the capacity to undertake and complete guided independent reading and research at the doctoral level.

Master's program (Level I) requirements include:

1. Extensive study of Greek and Latin, with at least three years of coursework in one language and at least two years in the other language.
2. At least six hours in one or more of the following: ancient history, ancient art, archaeology, philosophy, literary criticism, linguistics.
3. A GPA of at least a 3.0.
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the record shows promise on other grounds.

Degrees Offered with a Major in Classical Studies

Doctor of Philosophy

Master of Arts

Classics Departmental Courses

- CLA 6125: Augustan Age
- CLA 6515: Roman Dynasty: Nero and the Julio-Claudians
- CLA 6795: Greek and Roman Archeology
- CLA 6805: The Classical Research Tradition
- CLA 6885: Roman Law and Society
- CLA 6895: Athenian Law and Society
- CLA 6905: Individual Work
- CLA 6930: Greece and the Near East
- CLT 6295: Greek Drama in Translation
- GRE 6425: Greek Prose Composition
- GRE 6755: Epigraphy
- GRK 6905: Individual Work in Modern Greek
- GRW 6105: The Greek Tradition
- GRW 6216: Greek Novel
- GRW 6316: Greek Tragedy
- GRW 6317: Ancient Greek Comedy
- GRW 6345: Greek Lyric Poetry
- GRW 6346: Pindar
- GRW 6347: Homer
- GRW 6386: Greek Historians
- GRW 6506: Plato
- GRW 6705: Attic Orators
- GRW 6905: Individual Work
- GRW 6930: Special Topics in Greek Literature
- GRW 6931: Comparative Study of Greek and Latin Literature
- GRW 6971: Research for Master's Thesis
- GRW 7979: Advanced Research
- GRW 7980: Research for Doctoral Dissertation
- LAT 6425: Latin Prose Composition
- LNW 5325: Roman Elegiac Poetry
- LNW 5655: Roman Poets: Horace
- LNW 5665: Roman Poets: Vergil
- LNW 5675: Roman Poets: Ovid
- LNW 5931: Comparative Study of Latin and Greek Literature
- LNW 6105: The Roman Tradition
- LNW 6225: The Ancient Roman Novel
- LNW 6335: Roman Oratory and Rhetoric
- LNW 6365: Studies in Roman Satire
- LNW 6385: Roman Historians
- LNW 6495: Late Latin Literature
- LNW 6905: Individual Work
- LNW 6933: Special Topics in Latin Literature
- LNW 6935: Proseminar in Classics
- LNW 6940: Supervised Teaching
- LNW 6971: Research for Master's Thesis
- LNW 7979: Advanced Research
- LNW 7980: Research for Doctoral Dissertation

Latin

College

[College of Liberal Arts and Sciences](#)

Department/School

[Classics Department](#)

Latin Program Information

(The following information refers only to our on-campus programs. Please visit the [Distance Learning Homepage](#) for further details on our Distance Learning MA and ML Programs, especially aimed at elementary, secondary, or community college teachers.)

The Department of Classics at the University of Florida offers an M.A. degree in Latin, an M.A.T. degree in Latin, as well as a Master of Latin degree. Students awarded a TA position receive a stipend plus a full tuition waiver. Students are expected to become Florida residents after one year.

The **Master of Arts in Latin** is a thesis degree designed specifically for students who are aiming toward a career in secondary teaching, but who still desire the writing experience and credential that a thesis provides.

The **Master of Arts in the Teaching of Latin (M.A.T.)** is recommended for students who wish to pursue a career in teaching and who want to include educational courses in their program. This is a non-thesis degree.

The **Master of Latin (ML) degree** is designed primarily for currently employed, and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of Classics, and enhance their professional qualifications. This is a non-thesis degree.

For minimum degree requirements, see the [Graduate Degrees](#) section of the catalog. For additional requirements, please see the department website: <http://classics.ufl.edu>.

Admission Requirements to the Latin Programs:

Admission into the university and the program for Classics is ultimately determined and granted according to the rules established by the Graduate School of the University of Florida (see the Graduate Catalog).

Submission of Graduate Record Examination (GRE) scores, with a minimum score of 1000 (combined verbal and quantitative). Competitive applicants for funding awards from the department typically have a combined score of at least 1200.

Master's level (Level I) requirements include:

1. Extensive study of Greek and Latin, with at least three years of coursework in one language and at least two years in the other language.
2. At least six hours in one or more of the following: ancient history, ancient art, archaeology, philosophy, literary criticism, linguistics.
3. A GPA of at least a 3.0.
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the record shows promise on other grounds.

Degrees

Master of Arts

Master of Arts in Teaching

Master of Latin

Classics Departmental Courses

- CLA6125: Augustan Age
- CLA6515: Roman Dynasty: Nero and the Julio-Claudians
- CLA6795: Greek and Roman Archeology
- CLA6805: The Classical Research Tradition
- CLA6885: Roman Law and Society
- CLA6895: Athenian Law and Society
- CLA6905: Individual Work
- CLA6930: Greece and the Near East
- CLT6295: Greek Drama in Translation
- GRE6425: Greek Prose Composition
- GRE6755: Epigraphy
- GRK6905: Individual Work in Modern Greek
- GRW6105: The Greek Tradition
- GRW6216: Greek Novel
- GRW6316: Greek Tragedy
- GRW6317: Ancient Greek Comedy
- GRW6345: Greek Lyric Poetry
- GRW6346: Pindar
- GRW6347: Homer
- GRW6386: Greek Historians
- GRW6506: Plato

- GRW 6705: Attic Orators
- GRW 6905: Individual Work
- GRW 6930: Special Topics in Greek Literature
- GRW 6931: Comparative Study of Greek and Latin Literature
- GRW 6971: Research for Master's Thesis
- GRW 7979: Advanced Research
- GRW 7980: Research for Doctoral Dissertation
- LAT 6425: Latin Prose Composition
- LNW 5325: Roman Elegiac Poetry
- LNW 5655: Roman Poets: Horace
- LNW 5665: Roman Poets: Vergil
- LNW 5675: Roman Poets: Ovid
- LNW 5931: Comparative Study of Latin and Greek Literature
- LNW 6105: The Roman Tradition
- LNW 6225: The Ancient Roman Novel
- LNW 6335: Roman Oratory and Rhetoric
- LNW 6365: Studies in Roman Satire
- LNW 6385: Roman Historians
- LNW 6495: Late Latin Literature
- LNW 6905: Individual Work
- LNW 6933: Special Topics in Latin Literature
- LNW 6935: Proseminar in Classics
- LNW 6940: Supervised Teaching
- LNW 6971: Research for Master's Thesis
- LNW 7979: Advanced Research
- LNW 7980: Research for Doctoral Dissertation

Computer and Information Science and Engineering Department

[College of Liberal Arts and Sciences](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir.

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, Engineer, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Other

Computer Science

College

[College of Liberal Arts and Sciences](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Computer Science Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science degree in Computer Science through the College of Liberal Arts and Sciences. Minimum requirements for this degree are given in the [Graduate Degrees](#) section of this catalog

The department offers graduate study and research in Algorithms, Computer Vision, Databases, Graphics and Modeling, Machine Learning, Networks, and Systems, with active labs in Bioinformatics; Computational Science and Intelligence; Vision, Graphics and Medical Imaging; Database Systems Research and Development; Data Science Research; Mobile and Pervasive Computing; Human-Centered Computing and Cybersecurity.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:

<http://cise.ufl.edu/admissions/grad>

Degrees Offered with a Major in Computer Science

Master of Science

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS

- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Sociology and Criminology & Law Department

Chair: Barbara Zsembik

Graduate Coordinator: Barbara Zsembik

Complete faculty listing by department: [Follow this link.](#)

The Department of Sociology and Criminology & Law offers several programs of graduate study leading to the Ph.D. in Sociology, the Ph.D. in Criminology, Law and Society, the MA in Sociology, the MA in Criminology, Law and Society, and a Joint MA in Criminology/JD degree. The department also partners with the School of Natural Resources and Environment Department to offer the Ph.D. or MA in Interdisciplinary Ecology. Advanced undergraduate majors may complete a combined BA/MA degree in Sociology or a combined BA/MA degree in Criminology, Law and Society.

Other

Criminology, Law and Society

College

[College of Liberal Arts and Sciences](#)

Department/School

[Sociology and Criminology & Law Department](#)

Criminology, Law and Society Program Information

Requirements for the M.A. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog. The graduate program in criminology and law has two areas of special emphasis: crime and justice, and law and society. The degree programs are research-based and prepare students to conduct original exploration into relevant problems, issues, and policies.

M.A. degree program: Admission to the master's degree program requires a bachelor's degree from a criminology/criminal justice or relevant social science or humanities program (political science, sociology, anthropology, psychology, philosophy, history, women's studies, etc.). Qualified students may enter the master's program as undergraduates through the combined

B.A./M.A. program. Both M.A. options (thesis and nonthesis) require satisfactory completion of at least 36 credit hours.

Ph.D. degree program: The Doctor of Philosophy program includes a minimum of 90 semester hours of credit beyond the B.A. Students with a criminology or closely related M.A. received in the last 7 years from an accredited U.S. university may request that up to 30 hours credit from their M.A. work be counted toward this total. Those with an M.A. from this department may apply 36 hours. The Department requires Ph.D. students to complete at least 66 hours of course work (excluding research credits), including the M.A. hours. Qualifying examinations take place at the end of a student's course work.

Criminology, Law and Society/Law joint degree programs: The Department of Sociology and Criminology & Law (CLS) and the College of Law offer a joint degree program leading to an M.A. or a Ph.D. in Criminology, Law and Society and a J.D. in law. The joint degree programs enable students to earn both the degrees (the J.D. and the M.A. or the J.D. and the Ph.D.) in less time than would be required to earn both degrees consecutively. Students wishing to pursue the joint program must be admitted to both the Graduate School and the College of Law. These requirements include both the LSAT and GRE. Admission to one may precede the other. Students are encouraged to announce their intent to seek a joint degree as soon as possible. CLS allows 12 hours of appropriate law school courses to be credited toward the CLS degree. The 12 credits selected from the law curriculum must be approved by the graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in graduate courses to be credited toward the J.D.

Degrees

Doctor of Philosophy

Master of Arts

Courses

- CCJ 5934: Contemporary Issues in Criminology and Law
- CCJ 6936: Proseminar in Crime, Law, and Justice
- CJL 6039: Law and Society
- CCJ 6063: Communities and Crime
- CCJ 6658: Drugs, Crime, and Policy
- CCJ 6285: Criminal Justice Process
- CCJ 6619: Crime and the Life Course
- CCJ 6643: White Collar Crime
- CCJ 6705: Research Methods in Crime, Law, and Justice
- CCJ 6708: Research Issues in Crime and Deviance
- CCJ 6712: Evaluation Research
- CCJ 6905: Independent Study
- CCJ 6910: Supervised Research
- CCJ 6920: Seminar in Criminological Theory
- CCJ 6971: Research for Master's Thesis
- CCJ 7742: Research Methods in Crime, Law, and Justice II
- CCJ 7921: Professional Development in Criminology, Law, and Society
- CCJ 7979: Advanced Research
- CCJ 7980: Research for Doctoral Dissertation
- CJC 6120: Corrections and Public Policy
- CJL 6089: Humanitarian Law
- CJL 6090: Law and Social Science
- CJL 6091: Anthropology of Law
- CJL 6095: Human Rights in Cultural Context

Sociology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Sociology and Criminology & Law Department](#)

Sociology Program Information

Sociologists conduct research to understand the social forces that shape all of our lives, often in hopes of improving everyday life and the life chances of each person. Graduate studies in sociology provide the people skills and technical skills to organize information, communicate analytical research to academic and lay audiences, and prepare well-reasoned and carefully-written reports and documents that contribute to societal well-being. Our award-winning and internationally-known faculty successfully mentor graduate students to complete their studies and become established in their professional academic and nonacademic careers.

We offer particular expertise in these areas: environment and resources, families, aging, gender, health, sexualities, life course, and race-ethnicity in US and global perspectives. There is also considerable expertise in: demography, social inequality, Latin American studies, Latino sociology, social psychology, deviance, and political sociology. We take great pride in the fact that our faculty are involved in interdisciplinary research projects that span nearly all of the University's colleges and academic programs, including the School of Natural Resources and the Environment, the Water Institute, the Emerging Pathogens Institute, the Center for Latin American Studies, the Center for European Studies, the Center for Women's Studies and Gender Research, the Health Science Center, and the Jewish Studies Center. Wherever you go on campus, you will most likely find at least one Sociologist from our department making major contributions.

Minimum requirements for the M.A. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Admission to either Sociology graduate program requires a bachelor's degree in Sociology or related social science as approved by the Department. Current UF students may also enter the M.A. program through the combined B.A./M.A. program. The Sociology graduate programs look for mature students with outstanding potential and research interests that complement those of our faculty.

Prospective students should examine the research interests of the Sociology Graduate Faculty to obtain a more detailed sense of faculty expertise and research areas, see the department website: <http://soccrim.clas.ufl.edu/graduate/>. Applications for admission and fellowship support are due December 1 of each year. Students planning to apply for admission should take the Graduate Record Examination at the earliest possible date.

Degrees Offered with a Major in Sociology

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Tropical Conservation and Development

Courses

- SYA6018: Classical Social Theories
- SYA6126: Contemporary Sociological Theory
- SYA6305: Methods in Social Research I
- SYA6306: Methods in Social Research II
- SYA6315: Qualitative Research Methods

- SYA6327: Research Problems in Deviance
- SYA6407: Quantitative Research Methods
- SYA6905: Individual Work
- SYA6910: Supervised Research
- SYA6942: Applied Social Research Project
- SYA6971: Research for Master's Thesis
- SYA7933: Special Study in Sociology
- SYA7979: Advanced Research
- SYA7980: Research for Doctoral Dissertation
- SYD 6436: Metropolitan Growth and Development
- SYD 6517: Seminar in Environment and Society
- SYD 6518: Core Issues in Environmental and Resource Sociology
- SYD 6706: Racial and Ethnic Relations
- SYD 6707: Black and White Americans: Sociological Perspectives
- SYD 6807: Sociology of Gender
- SYD 6825: Men and Masculinities
- SYD 7808: Reproduction and Gender
- SYO 6107: American Families
- SYO 6126: Family Theories
- SYO 6175: Topics in Family Research
- SYO 6407: Health Disparities
- SYO 6427: Health and Aging
- SYO 6535: Social Inequality
- SYD 6806: Gender and Society
- SYP 6115: Seminar in Symbolic Interaction
- SYP 6517: Theories of Crime and Deviance
- SYP 6545: Sociology of Law
- SYP 6735: Sociology of Aging and the Life Course
- SYP 6736: Sociology of the Aged
- SYP 6745: Aging and End-of-Life Issues

English Department

Chair: K. Kidd

Graduate Coordinator: S. I. Dobrin

Complete faculty listing by department: [Follow this link.](#)

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English, along with the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. For more information about our programs, please follow the hyperlinks below or visit our website: <http://www.english.ufl.edu/programs.html>.

Other

Creative Writing

College

[College of Liberal Arts and Sciences](#)

Department/School

[English Department](#)

Creative Writing Program Information

The Department of English offers the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.F.A. are provided in the [Graduate Degrees](#) section of this catalog. Full information concerning courses of study is available from the graduate coordinator.

Degrees

Master of Fine Arts

English Departmental Courses

- AML 6017: Studies in American Literature Before 1900
- AML 6027: Studies in 20th-Century American Literature
- CRW 6130: Fiction Writing
- CRW 6166: Studies in Literary Form
- CRW 6331: Verse Writing
- CRW 6906: Individual Work
- ENC 5236: Advanced Business Writing for Accounting
- ENC 6428: Digital English
- ENG 6016: Psychological Approaches to Literature
- ENG 6075: Literary Theory: Issues
- ENG 6076: Literary Theory: Theorists
- ENG 6077: Literary Theory: Forms
- ENG 6137: The Language of Film
- ENG 6138: Studies in the Movies
- ENG 6906: Individual Work
- ENG 6910: Supervised Research
- ENG 6932: Film and Video Production
- ENG 6971: Research for Master's Thesis
- ENG 7939: Seminar in Variable Topics
- ENG 7979: Advanced Research
- ENG 7980: Research for Doctoral Dissertation
- ENL 6206: Studies in Old English
- ENL 6216: Studies in Middle English
- ENL 6226: Studies in Renaissance Literature
- ENL 6236: Studies in Restoration and 18th-Century Literature
- ENL 6246: Studies in Romantic Literature
- ENL 6256: Studies in Victorian Literature
- ENL 6276: Studies in 20th-Century British Literature
- LAE 6940: Supervised Teaching
- LAE 6947: Writing Theories & Practices
- LIT 5335: Approaches to Children's and Adolescent Literature
- LIT 6037: Studies in Verse
- LIT 6047: Studies in Drama
- LIT 6309: Communications and Popular Culture
- LIT 6236: Postcolonial Studies
- LIT 6308: Studies in Comics and Animation
- LIT 6327: Studies in Folklore
- LIT 6357: African-Amer. or African Diaspora Lit./Cultures
- LIT 6358: Theoretical Approaches to Black Cultural Studies
- LIT 6855: Issues in Cultural Studies
- LIT 6856: Cultural Studies: Interventions
- LIT 6857: Cultural Studies: Movements
- LIT 6934: Variable Topics
- SPC 6239: Studies in Rhetorical Theory

English

College

[College of Liberal Arts and Sciences](#)

Department/School

[English Department](#)

English Program Information

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English with the specializations listed below. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. Specific areas of specialization for the Master of Arts and the Doctor of Philosophy include literature (Medieval, Renaissance, Restoration, and 18th-century and 19th-century British literature, American literature to 1900, contemporary British and American literature), American studies, critical theory, cultural studies, film and media studies, feminisms, genders and sexualities, postcolonial studies, composition and rhetoric, comics and visual rhetoric, and children's literature.

New graduate students should have completed an undergraduate English major of at least 24 semester hours, and doctoral students should have a Master of Arts degree in English. Full information concerning courses of study is available from the graduate coordinator.

Degrees

Doctor of Philosophy

Master of Arts

English Departmental Courses

- AML 6017: Studies in American Literature Before 1900
- AML 6027: Studies in 20th-Century American Literature
- CRW 6130: Fiction Writing
- CRW 6166: Studies in Literary Form
- CRW 6331: Verse Writing
- CRW 6906: Individual Work
- ENC 5236: Advanced Business Writing for Accounting
- ENC 6428: Digital English
- ENG 6016: Psychological Approaches to Literature
- ENG 6075: Literary Theory: Issues
- ENG 6076: Literary Theory: Theorists
- ENG 6077: Literary Theory: Forms
- ENG 6137: The Language of Film
- ENG 6138: Studies in the Movies
- ENG 6906: Individual Work
- ENG 6910: Supervised Research
- ENG 6932: Film and Video Production
- ENG 6971: Research for Master's Thesis
- ENG 7939: Seminar in Variable Topics
- ENG 7979: Advanced Research
- ENG 7980: Research for Doctoral Dissertation
- ENL 6206: Studies in Old English
- ENL 6216: Studies in Middle English
- ENL 6226: Studies in Renaissance Literature
- ENL 6236: Studies in Restoration and 18th-Century Literature
- ENL 6246: Studies in Romantic Literature
- ENL 6256: Studies in Victorian Literature
- ENL 6276: Studies in 20th-Century British Literature
- LAE 6940: Supervised Teaching
- LAE 6947: Writing Theories & Practices
- LIT 5335: Approaches to Children's and Adolescent Literature
- LIT 6037: Studies in Verse
- LIT 6047: Studies in Drama
- LIT 6309: Communications and Popular Culture
- LIT 6236: Postcolonial Studies
- LIT 6308: Studies in Comics and Animation
- LIT 6327: Studies in Folklore
- LIT 6357: African-Amer. or African Diaspora Lit./Cultures
- LIT 6358: Theoretical Approaches to Black Cultural Studies
- LIT 6855: Issues in Cultural Studies
- LIT 6856: Cultural Studies: Interventions
- LIT 6857: Cultural Studies: Movements
- LIT 6934: Variable Topics
- SPC 6239: Studies in Rhetorical Theory

Geography Department

Chair: M. W. Binford

Graduate Coordinator: C. J. Matyas

Complete faculty listing by department: [Follow this link.](#)

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

The focus of the Department is in human-environment interactions, with "environment" interpreted very broadly. The Department provides four main areas of specialization for graduate research: economic and cultural geography; resource management and land use and land cover change; medical geography; and physical geography. Economic and cultural geography concerns such topics as spatial economic theory and; housing and care of the elderly. Resource management and land-use and land-cover change focus on agricultural change and resource conservation and development in the tropics and subtropics, and rural and urban land use and land cover change in tropical and temperate regions. Africa and Latin America are the primary areas of regional emphasis outside of the U.S. Physical geography in the Department concentrates on climatology, fluvial geomorphology, and hydrology. Medical geography studies the geographic aspects of

human health including disease ecology and transmission and healthcare issues. The Department's extensive geographic information system, remote sensing, and computer cartography teaching and research facilities contribute to and support all of the areas of research. Faculty from the Department are also major participants in the Emerging Pathogens Institute, Florida Climate Institute, Land Use and Environmental Change Institute (L.U.E.C.I.), and the Water Institute. Prospective students should examine the research interests of the Graduate Faculty to obtain a more detailed sense of the Department's specialties (see the departmental website: www.geog.ufl.edu).

To ensure the incorporation of relevant interdisciplinary perspectives in each student's program, the Department maintains close ties with other departments in Liberal Arts and Sciences, and with programs in African studies, Latin American studies, the School of Natural Resources and Environment, the Institute on Aging, urban and regional planning, tropical agriculture, tropical ecology,, water resources, the Warrington College of Business Administration, the College of Agricultural and Life Sciences, College of Public Health and Health Professions, and the Hydrological Sciences Academic Cluster. Certificates in certain of these fields may be obtained in addition to graduate degrees in geography. Geography administers the Graduate Certificate in Applied Atmospheric Sciences.

A graduate student should preferably have an undergraduate major in geography, but applicants with degrees in one of the social or physical sciences are accepted into the Department's graduate program. Deficiencies in undergraduate work in geography must be corrected concurrently with registration in graduate level courses. All students in the graduate program are required to take courses in contemporary geographic thought and geographic research skills.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Geography

College

[College of Liberal Arts and Sciences](#)

Department/School

[Geography Department](#)

Geography Program Information

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

Degrees

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Arts

without a concentration

concentration in Applications of Geographic Technologies

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Arts in Teaching

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Applications of Geographic Technologies

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- GEA 6419: Seminar: South America
- GEA 6466: Seminar on Geography of Amazonia
- GEA 6468: Resource Utilization and Conservation in Latin America
- GEO 5305: Environmental Biogeography
- GEO 5346: Natural Hazards
- GEO 5556: Geography of Innovation and Technological Change
- GEO 5605: Advanced Urban Geography
- GEO 5809: Geography of World Agriculture
- GEO 5905: Individual Study: Directed Reading
- GEO 5920: Geography Colloquium
- GEO 5945C: Field Course in Geography
- GEO 6118: Contemporary Geographic Thought and Research
- GEO 6119: Proposal Writing in Geography
- GEO 6160: Introduction to Quantitative Methods for Geographers
- GEO 6161: Intermediate Quantitative Methods for Geographers
- GEO 6166: Advanced Quantitative Methods for Spatial Analysis
- GEO 6255: Climatology
- GEO 6282: Fluvial Morphology
- GEO 6348: Floods Seminar
- GEO 6375: Land Change Science Seminar
- GEO 6429: Seminar: Cultural Geography
- GEO 6435: Seminar in Population
- GEO 6451: Medical Geography
- GEO 6495: Environment and Behavior
- GEO 6905: Individual Work
- GEO 6921: How to Survive and Thrive in Academia
- GEO 6931: Seminar in Cultural and Political Ecology
- GEO 6938: Selected Topics in Geography
- GEO 6971: Research for Master's Thesis
- GEO 7979: Advanced Research
- GEO 7980: Research for Doctoral Dissertation
- GEY 6341: Shelter and Care Options for U.S. Elderly
- GIS 5008C: Maps and Graphs
- GIS 5009C: Advanced Cartography
- GIS 5028C: Advanced Aerial Photo Interpretation
- GIS 5038C: Remote Sensing
- GIS 5107C: Geographic Information Systems in Research
- GIS 5306: Geographic Information Systems Applications in Environmental Systems
- GIS 5540: Business Geography and New Real Estate Market Analysis
- GIS 6104: Spatial Networks
- GIS 6425C: GIS Models for Public Health
- MET 5504: Weather and Forecasting
- MET 6530: Hurricanes
- MET 6565: Seminar in Atmospheric Teleconnections
- MET 6752: Atmospheric Data Analysis

Geological Sciences Department

Chair: P. A. Mueller.

Graduate Coordinator: J. M. Jaeger.

Complete faculty listing: [Follow this link.](#)

The Department of Geological Sciences is composed of a group of internationally recognized faculty, graduate students, and dedicated support staff. Faculty and students in the Department of Geological Sciences are involved in exciting and groundbreaking research projects throughout the world and in Florida. The Department houses world-class analytical and computing facilities for research and teaching.

The Department has identified six primary areas of emphasis in its research and teaching programs: environmental geology and hydrology, paleoclimatology, tectonophysics, geochemistry and mineralogy/petrology, marine and coastal geology, and paleomagnetism. For more detailed information on current departmental activities, faculty, and research centers, see <http://web.geology.ufl.edu>. The Department has collaborative, interdisciplinary programs of study and research with the Florida Museum of Natural History, the Center for Wetlands Research, the Land Use and Environmental Change Institute (L.U.E.C.I.), and the hydrological sciences cluster.

Other

Geology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Geological Sciences Department](#)

Geology Program

The Department of Geological Sciences offers programs leading to the Master of Science (thesis), the Master of Science in Teaching (nonthesis), and the Doctor of Philosophy degrees in geology. Requirements for these degrees are described in the General Information section of this catalog.

For admission to graduate status in the Department of Geological Sciences, a student must have a baccalaureate degree with a major in geology or a related field or its equivalent. Deficiencies in undergraduate preparation can be corrected by completing the undergraduate courses without credit while enrolled as a graduate student.

Applicants should take the GRE general test. The scores of this examination must be reported to the Department of Geological Sciences. Three letters of recommendation are also required for admission to the doctoral program and for financial aid applications at any level.

A minimum of 33 semester hours of graduate level courses are required for the Master of Science in geology. At least 24 hours must be in organized graduate-level geology courses (excluding research, teaching, special projects, etc.). Six hours of thesis research credit are required. All master's degrees are terminal; a separate and new application for admission to the doctoral program is required.

For the Master of Science in Teaching degree, at least 36 hours are required. Six of these hours must be in [GLY 6943](#) and at least 24 must be in organized graduate-level geology courses. The remaining 6 hours must be in approved electives. A minor in education is required. Candidates also must pass the final oral examination.

Of the 90 semester hours required for the Ph.D., 45 must be in formal, organized graduate-level class work (excluding individual work, supervised research and teaching, advanced research, dissertation, special projects, etc.). Remaining credits will be in [GLY 7979](#) and [GLY 7980](#), additional geology courses, or courses in a related field.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Degrees

Doctor of Philosophy

without a concentration

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- BOT 5305: Paleobotany
- ESC 5211: Current Topics in Earth Science for Teachers
 - ESC 5211L
 - GLY 5020
 - GLY 5020L
 - GLY 5075
- GLY 5156: Geologic Evolution of North America
- GLY 5246: Geochemistry
- GLY 5245: Hydrogeochemistry
- GLY 5247: Surface and Ground Water Interactions
- GLY 5248: Physical Geochemistry
- GLY 5255: Organic Geochemistry and Geobiology
- GLY 5328: Advanced Igneous Petrology
- GLY 5455: Introduction to Geophysics and Tectonics
 - GLY 5456
- GLY 5466: Seismology and Earth Structure
- GLY 5468: Terrestrial Gravity and Magnetism

- GLY 5476: Environmental Geophysics
- GLY 5558C: Sedimentology
- GLY 5576: Continental Margin Stratigraphy
- GLY 5705: Geomorphology
- GLY 5736: Marine Geology
- GLY 5786L: Topics in Field Geology
- GLY 5827: Ground Water Geology
- GLY 6075: Global Climate Change: Past, Present, and Future
- GLY 6268C: Isotope Geology
- GLY 6297: Topics in Geochemistry
 - GLY 6424
- GLY 6425: Tectonics
- GLY 6519: Stratigraphy and Timescales
- GLY 6620C: Micropaleontology
 - GLY 6660C
- GLY 6695: Topics in Paleoclimatology
- GLY 6826: Hydrogeologic Modeling
- GLY 6862: Numerical Methods in Earth Sciences
- GLY 6905: Individual Work
- GLY 6931: Seminar
- GLY 6932: Special Topics in Geology
- GLY 6940: Supervised Teaching
- GLY 6943: Internship in College Teaching
- GLY 6971: Research for Master's Thesis
- GLY 7979: Advanced Research
- GLY 7980: Research for Doctoral Dissertation

History Department

[College of Liberal Arts and Sciences](#)

Chair: Sean P. Adams

Graduate Coordinator: Elizabeth Dale

The Department of History offers the following graduate degrees: Master of Arts with fields of specialization in African, Asian, European, Latin American, and United States history, and the Doctor of Philosophy with fields of specialization in African, European, Latin American, and United States history. In addition to materials required by the Graduate School for admission, applicants must send directly to the History Department the following evidence of aptitude and interest: Three recommendations, from persons competent to evaluate your potential for graduate work; A 3- to 5-page essay identifying your career goals and particular areas of interest; a sample of your written work in history. Interested students should consult the department web page for more information. □□

Other

History

College

[College of Liberal Arts and Sciences](#)

Department/School

[History Department](#)

History Program

The Department of History offers the following graduate degrees: Master of Arts degree with fields of specialization in African, Asian, European, Latin American, and United States history and the Doctor of Philosophy degree with fields of specialization in African, European, Latin American, and United States history, or with a dual major which allows students to create their own major fields.

Master of Arts: This degree serves to prepare students for admission to a Ph.D. program, for a teaching career in high school or community colleges, or for a career in government or business. □□

Fields of specialization: □□

–African (East Africa, Southern Africa, West Africa) □□

–European (medieval, early modern, or modern) □□

–Latin American (colonial Latin America, post-Colonial Latin America, Brazil, and the Caribbean or Spanish America) □□

–United States history (early America, 19th century, 20th century) □□

Thesis option requirements: □□

–A minimum of 30 credit hours □□

–At least 12 graduate-level regular course credit hours in your major field. In European, you must take at least two seminars in your area of specialization. In U.S. history, you must take the

19th-century America readings seminar, either the 20th-century or early America readings seminar, and at least one research seminar. In Latin American and African history, you must take the relevant readings seminars in your area of specialization, one other readings seminar, and at least one research seminar. □□

–At least 6 graduate-level regular course credit hours outside the major field (but in the Department of History). We recommend that you invest these regular course hours in readings seminars. □□

–Take 3 hours of historiography ([HIS 6061](#)) by the fourth semester of graduate study. □□

–Take 3 regular course credit hours from outside the Department. These should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser. □□

–Complete a master's thesis. The semester you graduate, you must be registered for a minimum of 3 thesis research hours ([HIS 6971](#)) in the fall or spring terms or 2 in a summer term. Your thesis should demonstrate your ability to handle the primary-source material of your field, and a working knowledge of the secondary literature; and should demonstrate your ability to present research results in a coherent, well-written study. The student must complete the thesis and make it available to readers 2 weeks before the oral examination, complete the application for the degree at the Office of the University Registrar before the deadline, and take the examination. □□

–Each student must pass a final comprehensive oral examination at the end of the program. □□

Non-thesis option requirements: □□

–A minimum of 30 credit hours. □□

–At least 12 graduate-level regular course credit hours inside your major field. In European, you must take at least two seminars in your area of specialization. In U.S. history, you must take the 19th-century American readings seminar, either the 20th-century or the early America readings seminar, and at least one research seminar. In Latin American or African history, you must take the relevant readings seminars in your area of specialization, one other readings seminar, and at least one research seminar. □□

–At least 6 graduate-level regular course credit hours outside your major field (but in the Department of History). We recommend that you invest these regular course hours in readings seminars. □□

–Take 3 hours of historiography ([HIS 6061](#)) by your fourth semester of graduate study. □□

–Take 3 regular course credit hours from outside the Department; these should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser. □□

–Complete a research seminar and/or a nonthesis project in history. Your primary goal in either is to complete an article-length essay (approximately 35 to 40 pages) of publishable or near-publishable quality. The essay should be based largely on primary sources. □□

–You must pass a final comprehensive oral and written examination conducted by your supervisory committee. □□

Supervisory committee for the M.A.: The committee normally consists of the chair and two other members of the graduate faculty. Additional members may be added if desirable. The committee assists in planning and supervising the student's program and conducts the final examination. The chair is also the thesis director if that option is chosen. □

Duration: The M.A. program can be completed in 3 semesters of full-time registration but may take longer. The Department believes that normally no more than 4 semesters of full-time registration should be spent on the degree. These semesters need not be consecutive. The Board of Education has established 60 credit hours as a maximum for the master's degree. Up to 6 credits of graduate-level courses taken at another school with a grade of B or better may be transferred into the master's program if approved by the Graduate School.

Bachelor's/master's program: The Department offers a combined 4/1 degree program that enables outstanding undergraduates to obtain both the B.A. and M.A. degrees in history after successful completion of 150 credit hours. The program is designed for the students who wish to continue their education in history past the bachelor's level but do not intend to pursue a doctorate in history or for students who wish to expand their training in a specific field before moving on to a doctoral program. The department offers a 4/1 degree program in the standard M.A. fields of study and offers two specialized tracks: oral history and academic publishing. Please see the Department website for more information. Students in this program are not eligible for departmentally controlled financial aid.

Doctor of Philosophy requirements: □□

–Professional competence in your major field, or major fields for students pursuing a dual degree. □□

–Knowledge of a minor, which may be drawn from the approved major fields of specialization for the doctorate (African, European, Latin American, or U.S. history), from approved minor fields (Atlantic history, gender, legal history), or may be self designed as a thematic research or teaching field. It must include at least 3 hours outside the historical area that defines your major field. Note: Students pursuing a dual major do not take a department minor field.

–At least 3 regular course credit hours from outside the Department; these should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser. □□

–Pass a set of written and oral qualifying examinations testing competence in major and additional fields and your knowledge of the nature of history and the historian's task. □□

–A dissertation for which credit is given in [HIS 7980](#). □□

History/law joint degree program: The Department of History and the College of Law offer a program in legal history leading to either the M.A. or a Ph.D. degree in history and the J.D. in law. Because the faculties of history and law stress interdisciplinary training, students admitted to the joint degree program will be allowed to count a significant number of hours toward both degrees. Applicants must be accepted by both the Graduate School and the College of Law. Normally, students will complete the course and examination requirements of both degrees in 4 years. Students may begin their first year of work in either history or law, but they must complete the first year of law school within 1 year and they must do so within the first 2 years after admission to the joint degree program. □□ For further information write to the Legal History Coordinator, Department of History, University of Florida, Box 117320, Gainesville, FL 32611-7320. □

Degrees

Doctor of Philosophy

without a concentration

concentration in Historic Preservation

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Historic Preservation

concentration in Jewish Studies

Courses

- AFH 5297: History of African Agriculture
- AFH 5348: History of West Africa
- AFH 5458: Southern Africa
- AFH 5934: Topics in African History
- AFH 6259: Seminar in Modern Africa
- AFH 6805: Theories and Methods of African History
- AFH 6934: Africa
- AFH 6936: Readings in African History
- AMH 5405: The South to 1860
- AMH 5905: Special Studies
- AMH 5930: Topics in United States History
- AMH 6198: Early American Society
- AMH 6199: Nineteenth Century America
- AMH 6290: Modern America
- AMH 6356: Research in U.S. History
- AMH 6406: Readings in Southern History, 1607-1865
- AMH 6465: Seminar in U.S. Urban History
- AMH 6506: Seminar in American Labor History
- AMH 6516: Seminar in American Foreign Relations and Expansion
- AMH 6557: Seminar in Constitutional or Legal History of the United States
- ASH 5388: Topics in East Asian History
- EUH 5546: Topics in British History
- EUH 5934: Topics in European History
- EUH 6126: Readings in Medieval History
- EUH 6174: Conversion in the Middle Ages
- EUH 6175: Ethnicity in the Middle Ages
- EUH 6176: Villages and Peasants in the Middle Ages
- EUH 6177: Economy and Society in Late Antiquity and the Early Middle Ages
- EUH 6213: Europe, 1500-1763
- EUH 6289: Readings, Modern Europe
- EUH 6469: Modern German History
- EUH 6935: Readings, Early Modern Europe
- EUH 6937: Readings in Mediterranean History
- HIS 5450: Slavery in the New World: Comparative Perspectives
- HIS 5484: Science and the Enlightenment
- HIS 5485: Special Studies in the History of Science
- HIS 6060: Historical Method
- HIS 6061: Introduction to Historiography
- HIS 6416: Problems in Comparative Legal History
- HIS 6445: Postcolonial Theories
- HIS 6469: Topics in Historiography of History of Science
- HIS 6478: Topics in the Scientific Revolution
- HIS 6480: Pre-Newtonian Sciences
- HIS 6488: Readings in the History of Science
- HIS 6905: Individual Study
- HIS 6910: Supervised Research
- HIS 6940: Supervised Teaching
- HIS 6943: Internship in College Teaching
- HIS 6957: Nonthesis Project in History

- HIS 6971: Research for Master's Thesis
- HIS 7979: Advanced Research
- HIS 7980: Research for Doctoral Dissertation
- LAH 5438: Modern Mexico
- LAH 5475: Caribbean, Nineteenth and Twentieth Centuries
- LAH 5476: Caribbean History to 1800: Slavery, Colonization, and International Conflict
- LAH 5527: Andean Nations
- LAH 5607: History of Amazonia
- LAH 5637: Brazil Since 1750
- LAH 5933: Topics in Caribbean History
- LAH 5934: Topics in Latin American History
- LAH 6934: Seminar in Colonial Spanish America
- LAH 6936: Seminar in History of Brazil
- LAH 6938: Seminar in Modern Spanish America
- EUH 5195: The Archaeology of the Middle Ages

Department of Languages, Literatures and Cultures

Complete faculty listing by department: [Follow this link.](#)

Other

French and Francophone Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

French and Francophone Studies Program Information

Bachelor's/master's program: French and Francophone Studies offers a combined 4/1 degree program that enables outstanding undergraduates to obtain both the B.A. and M.A. degrees after successful completion of 152 credit hours. The program is designed for the students who wish to continue their education in French and Francophone Studies past the bachelor's level but do not intend to pursue a doctorate or for students who wish to expand their training in a specific field before moving on to a doctoral program. Since students in the bachelor's/master's program have a graduate classification, students receiving undergraduate scholarships or Pell grants should check with the funding provider to make sure that they will not lose eligibility.□□

Degrees

Master of Arts

Master of Arts in Teaching

Courses

- FLE 6385: Foreign Languages Teaching Methods
- FRE 6060: Beginning French for Graduate Students I
- FRE 6061: Beginning French for Graduate Students II
- FRE 6466: Advanced Translation and Stylistics
- FRE 6735: Special Studies in French Linguistics
- FRE 6736: The French language in the Americas
- FRE 6785: French Phonetics and Phonology

- FRE 6827: Sociolinguistics of French
- FRE 6845: History of the French Language
- FRE 6855: Structure of French
- FRE 6856: French in the 21st Century
- FRE 6940: Supervised Teaching
- FRE 6943: Romance Language Teaching Methods
- FRE 6945: Practicum in Advanced College Teaching
- FRE 6956: Overseas Studies in French
- FRW 6217: Seventeenth-Century French Prose
- FRW 6276: Readings in Eighteenth-Century Literature
- FRW 6288: Twentieth-Century French Novel
- FRW 6315: Seventeenth-Century French Drama
- FRW 6328: Twentieth-Century French Theater
- FRW 6346: French Poetry of the Renaissance
- FRW 6355: Modern French Poetry
- FRW 6396: French Cinema
- FRW 6416: Later French Medieval Literature
- FRW 6536: The Romantic Period
- FRW 6556: French Realism and Naturalism
- FRW 6715: The Philosophic Movement
- FRW 6780: Studies in Francophone Literature and Culture (Excluding the Caribbean and Sub-Saharan Africa)
- FRW 6805: Introduction to Graduate Study and Research
- FRW 6825: French Critical Theory
 - FRW 6827
- FRW 6900: Special Study in French Literature
- FRW 6905: Individual Work
- FRW 6910: Supervised Research
- FRW 6938: Seminar in French Literature
- FRW 6971: Research for Master's Thesis
- FRW 7979: Advanced Research
- FRW 7980: Research for Doctoral Dissertation

German

Chair: M. Watt

Graduate Coordinator: W. Hasty

Complete faculty listings: [Follow this link](#).

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

Degrees

Doctor of Philosophy

without a concentration

concentration in Women's/Gender Studies

Master of Arts

German Literature and Cinema

- GET 6295: Weimar Cinema
- GET 6299: New German Cinema and its Legacy
- GEW 6205: Foundations of Literary Study
- GEW 6266: History of the German Novel
- GEW 6305: Studies in German Drama and Theater
- GEW 6405: Medieval and Renaissance Literature
- GEW 6425: From Luther to Lessing: Early Modern German Literature
- GEW 6535: German Classical and Romantic Literature
- GEW 6558: Young Germany, Biedermeier, Realism, and Naturalism
- GEW 6725: Culture and Society in the Weimar Republic
 - GEW 6726
- GEW 6735: Modern German Literature
- GEW 6736: Contemporary German Literature
- GEW 6745: Literature and Culture in the Third Reich
- GEW 6826: German Literary Theory
- GEW 6900: Seminar in Germanic Languages and Literatures
- GEW 6901: Special Study in Germanic Languages and Literatures
- GEW 6905: Independent Study
- GEW 6910: Supervised Research
- GEW 6971: Research for Master's Thesis
- GEW 7979: Advanced Research
- GEW 7980: Research for Doctoral Dissertation

German Language

- GER 6060: Beginning German for Graduate Students I
- GER 6061: Beginning German for Graduate Students II
- GER 6505: German Culture
- GER 6940: Supervised Teaching

Romance Languages (Language, Literature and Culture)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

Degrees Offered with a Major in Romance Languages

Doctor of Philosophy

concentration in French and Francophone Studies

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures

- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Latin American Studies Department

Director: C. D. Deere.

Graduate Coordinator: R. F. Brown.

Complete faculty listing by department: [Follow this link.](#)

The Center for Latin American Studies offers the following graduate programs:

- Latin American Studies
- Sustainable Development Practice

Other

Latin American Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Latin American Studies Department](#)

Latin American Studies Program

The Center for Latin American Studies offers the following graduate programs:

- An interdisciplinary Master of Arts degree
- Graduate certificate and advanced graduate certificate in Latin American studies in conjunction with disciplinary degrees in the Colleges of Agricultural and Life Sciences; Design, Construction, and Planning; Business Administration; Education; Fine Arts; Journalism and Communications; Law; and Liberal Arts and Sciences.

The graduate program in Latin American studies relies on over 250 courses with Latin American content taught in more than 35 academic units of the above colleges. The degree and certificate programs in Latin American studies are described on their website www.latam.ufl.edu/academics/graduate-programs. Complete course listings are available at the Center for Latin American Studies (319 Grinter Hall) and on the website.

Degrees

Master of Arts

without a concentration

concentration in Tropical Conservation and Development

Latin American Studies Courses

- FOT 6940: Translation Studies Practicum
- LAS 6008: Ecological Principles
- LAS 6220: Issues and Perspectives in Latin American Studies
- LAS 6290: Tropical Conservation and Development
- LAS 6291: Conservation and Development Skills
- LAS 6292: Tropical Conservation and Development Research Methods
- LAS 6293: Design and Methods of Research in Latin American Studies
- LAS 6295: Latin American Business Environment
- LAS 6296: Latin American Business Topics
- LAS 6905: Individual Work
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6940: Tropical Conservation and Development Practicum
- LAS 6943: Development Theory and Practice in Latin America
- LAS 6971: Research for Master's Thesis

Sustainable Development Practice

College

[College of Liberal Arts and Sciences](#)

Department/School

[Latin American Studies Department](#)

Sustainable Development Practice Program

Director: G. Galloway

Program Coordinator: C. Tarter

The Master of Sustainable Development Practice (MDP) Program offers the following academic programs:

- An interdisciplinary Master's degree in Sustainable Development Practice
- A graduate certificate in Sustainable Development Practice

The MDP Program is jointly administered by the Center for Latin American Studies and the Center for African Studies. The Master's degree is described in the *Other Master's Degrees* section of the Graduate Catalog. The certificate program is described in the *Interdisciplinary Graduate Certificates* section of the Graduate Catalog. More information about the MDP Program can also be found at the website <http://www.africa.ufl.edu/mdp/index.html>.

Degrees

Master of Sustainable Development Practice

Sustainable Development Courses

- AFS 6905: Individual Work in African Studies
- EVR 5705: Natural Resources and Innovation Systems
- LAS 6291: Conservation and Development Skills
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6943: Development Theory and Practice in Latin America
- PHC 6445: Global Public Health and Development II
- PHC 6764: Global Public Health and Development I

African Studies Courses

- AFS 5061: Africana Bibliography
- AFS 6060: Research Problems in African Studies
- AFS 6305: Development Theory and Practice Intro
- AFS 6307: Foundations of Economics for Sustainable Development
- AFS 6357: Anthropology of Humanitarian Intervention
- AFS 6905: Individual Work in African Studies

Latin American Studies Courses

- FOT 6940: Translation Studies Practicum
- LAS 6008: Ecological Principles
- LAS 6220: Issues and Perspectives in Latin American Studies
- LAS 6290: Tropical Conservation and Development
- LAS 6291: Conservation and Development Skills
- LAS 6292: Tropical Conservation and Development Research Methods
- LAS 6293: Design and Methods of Research in Latin American Studies
- LAS 6295: Latin American Business Environment
- LAS 6296: Latin American Business Topics
- LAS 6905: Individual Work
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6940: Tropical Conservation and Development Practicum
- LAS 6943: Development Theory and Practice in Latin America

- LAS 6971: Research for Master's Thesis

Additional Course Offerings

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study

- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Linguistics Department

Chair: F. McLaughlin

Graduate Coordinator: E. Potsdam

Complete faculty listing by department: [Follow this link](#)

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For detailed information on the program, please visit the link below. For further information on the program, including financial aid, please visit <http://lin.ufl.edu>.

Other

Linguistics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Linguistics Department](#)

Linguistics Program Information

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

For detailed information on the program, including financial aid, please visit the website <http://lin.ufl.edu>.

The Certificate in Second Language Acquisition and Teaching is offered to University of Florida graduate degree-seeking students in linguistics and related disciplines.

As part of its service to the University community, Linguistics also offers English as a Second Language training for international applicants and admitted students. These programs, the English Language Institute (ELI), Academic Written English (AWE), and Academic Spoken English (ASE), are described in the [Student Services](#) section of this catalog. This information, along with links to the application form, are available at <http://lin.ufl.edu>.

Applicants who lack a background in linguistics should develop basic competency in the core areas before commencing graduate work. These deficiencies can be met by taking LIN 3010, LIN 3201, and LIN 3460 or the equivalent.

Degrees

Doctor of Philosophy

Master of Arts

Linguistics Departmental Courses

- EAP 5835: Academic Spoken English I
- EAP 5836: Academic Spoken English II
- EAP 5837: Academic Spoken English Tutorial
- EAP 5845: Academic Writing
- EAP 5846: Research and Technical Writing
- EAP 5937: Special Topics in Academic Spoken English
- LIN 5657: Gender and Language
- LIN 5741: Applied English Grammar
- LIN 6084: Introduction to Graduate Research
- LIN 6165: Field Methods
- LIN 6208: Phonetics for Linguists
- LIN 6226: Advanced Phonetics
- LIN 6323: Phonology
- LIN 6341: Issues in Phonology
- LIN 6402: Morphology
- LIN 6410: Issues in Morphology
- LIN 6501: Syntax
- LIN 6520: Issues in Syntax

- LIN 6571: Structure of Specific Language
- LIN 6601: Sociolinguistics
- LIN 6622: Bilingualism
- LIN 6707: Psycholinguistics
- LIN 6708C: Methods in Psycholinguistics
- LIN 6720: Second Language Acquisition
- LIN 6773: Topics in Computational Linguistics
- LIN 6796: Cognitive Neuroscience of Language
- LIN 6804: Semantics I
- LIN 6826: Introduction to Formal Pragmatics
- LIN 6856: Semantics II
- LIN 6905: Individual Study
- LIN 6910: Supervised Research
- LIN 6932: Special Topics
- LIN 6940: Supervised Teaching
- LIN 6971: Research for Master's Thesis
- LIN 7118: History of Linguistics
- LIN 7641: Seminar in Language Variation
- LIN 7725: Topics in Second Language Acquisition
- LIN 7885: Discourse Analysis and Pragmatics
- LIN 7979: Advanced Research
- LIN 7980: Research for Doctoral Dissertation
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes

Mathematics Department

Chair: D. Cenzler

Graduate Coordinator: J. A. Larson

Complete faculty listing [Follow this link](#).

The Department of Mathematics offers the degrees of Doctor of Philosophy, Master of Science and Master of Arts, and the Master of Arts in Teaching and Master of Science in Teaching each with a major in mathematics. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

Interdisciplinary Programs — The Department offers a co-major program in conjunction with the Statistics Department leading to the Doctor of Philosophy degree in mathematics and statistics. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Statistics, Industrial and Systems Engineering, and Finance, Insurance, and Real Estate Departments.

Combined Program — The Department has an accelerated bachelor's/master's program designed for superior undergraduate students who have the ability to pursue such a plan of study leading to the Master of Science or Master of Arts degree. The main feature of the program is that up to 12 semester hours of approved graduate level mathematics courses may be used as dual credit for both the undergraduate and the graduate degree. All other requirements for both the bachelor's degree and the master's degree must be met. For admission requirements for this program, see the undergraduate coordinator.

There are opportunities for concentrated study in a number of specific areas of pure and applied mathematics at both the master's and doctoral levels. The faculty directs studies and research in algebra, number theory, analysis, geometry, topology, logic, differential equations, dynamical systems, probability theory, numerical analysis, numerical optimization, approximation theory, combinatorial analysis, graph theory, computer applications, biomathematics, mathematical physics, inverse problems, and medical imaging. In addition to the requirements of the Graduate School, the minimum prerequisite for admission to the program of graduate studies in mathematics is the completion, with an average grade of B or better, of at least 24 credits of undergraduate mathematics, including a full year of calculus and three semesters of appropriate work beyond the calculus. The most appropriate courses for this purpose are advanced calculus, linear algebra and abstract algebra. Students lacking part of the requirements will be required to make up the deficiency early in their graduate work. Prerequisites to individual courses should be determined before registration by consultation with the instructor concerned. Some of the courses listed are offered only as needed. Since times of offering courses are estimated a year in advance, certain changes may be made if needs are known by the Department. The courses [MAA 5228](#), [MAA 5229](#), [MAS 5311](#), and [MAS 5312](#) are required for all advanced degree programs in mathematics. The requirements for the master's degree nonthesis option include a minimum of 32 semester hours of course work. Students pursuing the master's degree in mathematics must pass two comprehensive written examinations, one in algebra and one in analysis. Students pursuing the master's degree with a specialization in applied mathematics have two options: the examination option requires passage of the algebra and analysis examinations; the thesis option requires instead the preparation and oral defense of a thesis on original research conducted under the supervision of a faculty adviser. Students pursuing the Master of Arts in Teaching or the Master of Science in Teaching degree must prepare a teaching portfolio and pass an oral examination. Each of these programs normally requires two years for completion. The requirements for a doctoral degree include 36 hours of 6000-level course work in mathematics; no hours of teaching, colloquium, dissertation, or individual work will count toward this requirement. To become a candidate for the doctoral degree, the student must pass a comprehensive preliminary examination with written and oral components administered by the Department. The doctoral student must also pass a reading knowledge examination in one of the following foreign languages: French, German, or Russian. The dissertation is an important requirement for the doctoral degree in mathematics. The topic for the dissertation may be chosen from a number of areas of current research in pure and applied mathematics. Every graduate student is expected to attend the regular colloquium. Details concerning all requirements for graduate degrees in mathematics may be obtained by writing the Mathematics Department Graduate Selection Committee or consulting the Department website, <http://www.math.ufl.edu>.

Other

Mathematics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Mathematics Department](#)

Degrees

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

concentration in Quantitative Finance

Master of Arts in Teaching

Master of Science

Master of Science in Teaching

Courses

- MAA 5104: Advanced Calculus for Engineers and Physical Scientists I
- MAA 5105: Advanced Calculus for Engineers and Physical Scientists II
- MAA 5228: Modern Analysis I
- MAA 5229: Modern Analysis II
- MAA 5404: Introduction to Complex Variables for Engineers and Physical Scientists
- MAA 6236: Mathematical Analysis for Statisticians
- MAA 6406: Complex Analysis I
- MAA 6407: Complex Analysis II
- MAA 6616: Analysis I
- MAA 6617: Analysis II
- MAA 7526: Advanced Topics in Functional Analysis I
- MAA 7527: Advanced Topics in Functional Analysis II
- MAD 6206: Combinatorial Theory I
- MAD 6207: Combinatorial Theory II
- MAD 6406: Numerical Linear Algebra
- MAD 6407: Numerical Analysis
- MAD 7396: Topics in Combinatorial Theory I
- MAD 7397: Topics in Combinatorial Theory II
- MAE 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAP 5304: Intermediate Differential Equations for Engineers and Physical Scientists
- MAP 5345: Introduction to Partial Differential Equations
- MAP 5489: Modeling in Mathematical Biology
- MAP 6208: Numerical Optimization
- MAP 6327: Applied Differential Equations I
- MAP 6356: Partial Differential Equations I
- MAP 6357: Partial Differential Equations II
- MAP 6375: Numerical Partial Differential Equations
- MAP 6376: Finite Element Method
- MAP 6467: Stochastic Differential Equations and Filtering Theory I
- MAP 6468: Stochastic Differential Equations and Filtering Theory II
- MAP 6472: Probability and Potential Theory I
- MAP 6473: Probability and Potential Theory II
- MAP 6487: Biomathematics Seminar I
- MAP 6488: Biomathematics Seminar II
- MAP 6505: Mathematical Methods of Physics and Engineering
- MAP 6506: Mathematical Methods of Physics and Engineering II
- MAP 6941: Internship in Applied Mathematics
- MAP 7436: Seminar in Applied Mathematics I
- MAP 7437: Seminar in Applied Mathematics II
- MAS 5311: Introductory Algebra I
- MAS 5312: Introductory Algebra II

- MAS 6331: Algebra I
- MAS 6332: Algebra II
- MAS 7215: Theory of Numbers I
- MAS 7216: Theory of Numbers II
- MAS 7396: Advanced Topics in Algebra I
- MAS 7397: Topics in Algebra II
- MAT 6905: Individual Work
- MAT 6910: Supervised Research
- MAT 6932: Special Topics in Mathematics
- MAT 6971: Research for Master's Thesis
- MAT 7979: Advanced Research
- MAT 7980: Research for Doctoral Dissertation
- MHF 5107: Introduction to Set Theory
- MHF 5207: Foundations of Mathematics
- MHF 6306: Mathematical Logic I
- MHF 6307: Mathematical Logic II
- MTG 5316: Introduction to Topology I
- MTG 5317: Introduction to Topology II
- MTG 5411: Introduction to Fractal Geometry
- MTG 5412: Introduction to Dynamical Systems and Chaos
- MTG 6256: Differential Geometry I
- MTG 6257: Differential Geometry II
- MTG 6346: Topology I
- MTG 6347: Topology II
- MTG 6401: Ergodic Theory and Dynamical Systems I
- MTG 6402: Ergodic Theory and Dynamical Systems II
- MTG 7396: Advanced Topics in Topology I
- MTG 7397: Advanced Topics in Topology II

Philosophy Department

Chair: G. Witmer.

Graduate Coordinator: C. Liu.

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Arts and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog.

Admission to the program requires a bachelor's degree in philosophy or sufficient course work in philosophy, as determined by the department. Applicants are evaluated on the basis of academic achievement, GRE scores, three letters of recommendation, a statement of purpose, and a sample essay in philosophy. Students may be admitted as for a terminal M.A. degree or for the Ph.D. Program.

The M.A. degree requires two years (36 hours) of course work. All graduate students take foundational courses in their first four semesters: the graduate Proseminar (PHI [PHI 5935](#)), Graduate Logic (PHI [5135](#)), a course in Ancient Philosophy (PHP [5005](#) or PHP [5015](#)), a course in Modern Philosophy (PHI [5405](#) or PHH [5406](#)), and either Foundations of Analytic Philosophy (PHP [5785](#)) or Epistemology (PHI [5365](#)).

The Ph.D. requires 90 credit hours, which may include 36 used as credit for the M.A. In addition to the foundational courses required for the M.A., the Ph.D. requires Ethical Theory (PHI [5665](#)) and both of PHP [5785](#) and PHI [5365](#). It also requires six courses at the advanced 6000-level, 3 proposal research hours and 12 doctoral research hours, and of course the successful completion and defense of a dissertation.

Further information about the department's programs and admissions can be obtained on the department's website web.phil.ufl.edu or by contacting the Graduate Coordinator, 330 Griffin-Floyd Hall, (352)392-2084 or gradcoord@phil.ufl.edu.

Other

Philosophy

College

[College of Liberal Arts and Sciences](#)

Department/School

[Philosophy Department](#)

Degrees

Doctor of Philosophy

Master of Arts

Master of Arts in Teaching

Courses

- PHH 5405: Modern Philosophy I
- PHH 5406: Modern Philosophy II
- PHH 5605: Studies in Continental Philosophy
- PHH 6105: Seminar in Ancient Philosophy
- PHH 6425: Seminar in Modern Philosophy
- PHI 5135: Graduate Logic
- PHI 5225: Philosophy of Language
- PHI 5325: Philosophy of Mind
- PHI 5365: Epistemology
- PHI 5405: Philosophy of Science
- PHI 5425: Philosophy of Social Science
- PHI 5505: Metaphysics
- PHI 5665: Ethical Theory
- PHI 5905: Individual Work
- PHI 5934: Topics in Philosophy
- PHI 5935: Proseminar
- PHI 6105: Seminar in Logic
- PHI 6226: Seminar in Philosophy of Language
- PHI 6306: Seminar in Epistemology
- PHI 6326: Seminar in Philosophy of Mind
- PHI 6406: Seminar in Philosophy of Science
- PHI 6506: Seminar in Metaphysics
- PHI 6667: Seminar in Ethics
- PHI 6787: Seminar in Continental Philosophy
- PHI 6905: Individual Work
- PHI 6910: Supervised Research
- PHI 6934: Special Topics
- PHI 6940: Supervised Teaching
- PHI 6971: Research for Master's Thesis
- PHI 7979: Advanced Research
- PHI 7980: Research for Doctoral Dissertation
- PHP 5005: Ancient Philosophy I
- PHP 5015: Ancient Philosophy II
- PHP 5785: Foundations of Analytic Philosophy
- PHP 6415: Seminar in Kant
- PHP 6795: Seminar in Analytic Philosophy
- PHP 6930: Seminar in a School or Thinker

Physics Department

[College of Liberal Arts and Sciences](#)

Chair: Kevin Ingersent

Graduate Coordinator: Guido Mueller

Complete faculty listings: [Follow this link](#).

The Department of Physics offers the Master of Science (thesis or nonthesis) and the Doctor of Philosophy degrees. The nonthesis Master of Science in Teaching is also offered. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Areas of specialization for graduate research include astrophysics and cosmology, atomic and molecular physics, biological physics, chemical physics, condensed matter physics (theory and experiment), nuclear physics, particle physics (theory and experiment), statistical physics, and low temperature physics.

Special interdisciplinary research programs include the Institute for Fundamental Theory (carried out jointly with the Department of Mathematics), the Institute for Theoretical and Computational Studies in Molecular and Materials Science (carried out jointly with the Department of Chemistry), the Institute of High Energy and Particle Astrophysics, and Microfabritech (jointly with the College of Engineering). A curriculum is offered by the Center for Chemical Physics for students interested in research related to chemistry or chemical engineering. The Center for Condensed Matter Sciences provides opportunities for investigations in a diverse range of subjects and fields, including the Microkelvin Research Laboratory. The University of Florida operates the National High Magnetic Field Laboratory jointly with Florida State University and Los Alamos National Laboratory.

The core curriculum is designed to provide a thorough foundation for all physics graduate students. It consists of [PHY 6246](#), [PHY 6346](#), [PHY 6347](#), [PHY 6536](#), [PHY 6645](#), and [PHY 6646](#). Doctoral students must achieve a 3.30 GPA in the core curriculum. All students must pass a preliminary examination at the undergraduate level. All degree candidates are required, as part of their graduate education, to participate continuously in the research and/or teaching programs of the Department.

For more information, please see the program page below, and visit our website: <http://www.phys.ufl.edu>.

Other

Physics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Physics Department](#)

Physics Program Information

The Department of Physics is dedicated to advancing the forefronts of knowledge in both pure and applied physics, thus providing an exciting intellectual climate for our graduate students. Our research activities include astrophysics (particle astrophysics, cosmology and gravitation), condensed matter and materials physics (experimental, theoretical and computational), low temperature physics, elementary particle physics (experimental and theoretical) and biological physics. With such diversity in research offerings you will have an opportunity to pursue research in most areas of contemporary physics. In spite of the size of our Department, we are committed to designing a program of graduate study that is tailored to your experience and interests. Our Graduate Coordinator sees that each of our graduate students receives personal attention and advice as they progress toward their advanced degree.

Graduate Program Overview

Preliminary Examination:

- Covers undergraduate subject matter
- Given twice a year; two years to complete

Graduate Core Courses

- Two semesters of quantum mechanics
- Two semesters of electromagnetism
- One semester of classical mechanics
- One semester of statistical mechanics
- Waivers given for equivalent
- work at other institutions
- Completed in first or second years

Distribution Requirement

- Advanced course work in three subfields
- Usually completed by the end of the second year

Highlights

- Involvement in research in first summer (or sooner)!
- Diversity of research interdisciplinary options!
- Individualized program designed to meet the unique background of each student!

For more information, please see our website: <http://www.physics.ufl.edu>.

Degrees

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

Master of Science

Master of Science in Teaching

Courses

- AST 6416: Physical Cosmology
- PHY 5277: Physics of Accident Reconstruction and Biomechanics
- PHY 5905: Individual Work
- PHY 6246: Classical Mechanics
- PHY 6346: Electromagnetic Theory I
- PHY 6347: Electromagnetic Theory II
- PHY 6536: Statistical Mechanics I
- PHY 6555C: Cryogenics
- PHY 6645: Quantum Mechanics I
- PHY 6646: Quantum Mechanics II
- PHY 6648: Quantum Field Theory I
- PHY 6905: Individual Work
- PHY 6910: Supervised Research
- PHY 6920: Departmental Colloquium
- PHY 6932: Seminar in Molecular and Computational Physics
- PHY 6943: Internship in College Teaching
- PHY 6971: Research for Master's Thesis
- PHY 7097: Advanced Topics in Theoretical Physics
- PHY 7669: Quantum Field Theory II
- PHY 7939: Special Topics
- PHY 7979: Advanced Research
- PHY 7980: Research for Doctoral Dissertation
- PHZ 5155C: Physical Modeling and Simulation
- PHZ 5245: Introduction to Magnetic Resonance
- PHZ 5354: Introduction to Particle Physics
- PHZ 5405: Introduction to Solid-State Physics
- PHZ 6156: Computer Methods in Physics
- PHZ 6166: Qualitative Methods of Theoretical Physics
- PHZ 6355: Elementary Particle Physics I
- PHZ 6358: Standard Model of Elementary Particles I
- PHZ 6391: Seminar in Astrophysics
- PHZ 6392: Seminar in Particle Physics
- PHZ 6426: Solid State I
- PHZ 6493: Seminar in Condensed Matter Physics
- PHZ 6607: Special and General Relativity
- PHZ 7357: Elementary Particle Physics II
- PHZ 7359: Standard Model of Elementary Particles II
- PHZ 7427: Solid State II
- PHZ 7428: Modern Condensed Matter Physics
- PHZ 7429: Phases of Condensed Matter
- PHZ 7608: Special and General Relativity II

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Other

Plant Molecular and Cellular Biology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Plant Molecular and Cellular Biology Department](#)

Plant Molecular and Cellular Biology Program Information

Director: Gloria A. Moore*Graduate Coordinator:* Matias Kirst

Plant Molecular and Cellular Biology (PCMB) is an interdisciplinary and interdepartmental graduate degree program that emphasizes understanding the molecular and cellular mechanisms that mediate plant development, adaptation, and evolution. Students can pursue an M.S. or a Ph.D. degree through the PCMB program. All students complete core courses in Advanced Genetics, Plant Molecular Biology and Genomics, Plant Cellular and Developmental Biology, and Plant Biochemistry. In addition to the core classes, students can select from a variety of courses in biochemistry, molecular biology, physiology, breeding, genetics, evolution, microbiology, and plant pathology.

New students are exposed to a variety of faculty and experimental systems while they rotate through several laboratories during their first two semesters before selecting an adviser and dissertation research area. Both M.S. and Ph.D. students take four required courses: [PCB 5065](#) Advanced Genetics, [PCB 5530](#) Plant Molecular Biology and Genomics, [PCB 6528](#) Plant Cell and Developmental Biology and [BOT 6935](#) Plant Biochemistry, as well as journal colloquium classes ([PCB 7922](#) Journal Colloquium). Additional elective courses are taken after approval by the student's supervisory committee. For additional information see <http://pmcb.ifas.ufl.edu>.

Successful candidates should have a strong interest in plant molecular and cellular mechanisms controlling development, metabolism, adaptation, and evolution. Applicants typically have a B.S. or M.S. in the agricultural, forestry, biological or chemical sciences with advanced undergraduate coursework in genetics, molecular and cellular biology, and biochemistry. However, outstanding students from a broad range of science disciplines are actively considered.

Degrees

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Molecular and Cellular Biology Courses

- BOT 6935: Special Topics
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6910: Supervised Research
- PCB 6937: Special Topics in Plant Molecular and Cellular Biology
- PCB 6971: Research for Master's Thesis
- PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

Political Science Department

Chair: Ido Oren

Graduate Coordinator: Daniel Smith

Complete faculty listing: [Follow this link.](#)

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) or follow the hyperlinks below to more information about the specific programs offered.

Other

Political Science

College

[College of Liberal Arts and Sciences](#)

Department/School

[Political Science Department](#)

Political Science Program Information

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information about international relations, please contact the [Political Science Department](#) or visit [their departmental page in this catalog](#).

Admission to graduate study in the Department of Political Science normally requires the completion of an undergraduate major in political science or its equivalent. Students without this preparation may be required to make up deficiencies early in their graduate work. The core sequence begins in the fall term, providing basic knowledge that students need in later semesters. In evaluating candidates for admission, the Department considers

- Prior academic achievement
- GRE scores
- Letters of recommendation from three faculty members or others familiar with the academic potential or work habits of the applicant
- A statement of purpose that conveys intellectual ambitions, indicates how the program of study satisfies the student's interests and goals, and tells how the student would contribute to the program.

Fields of specialization offered by the Department include American government and politics, comparative politics, international relations, public policy, political theory, political behavior, and political methodology.

Master of Arts: The M.A. curricula are designed to serve students who want to pursue goals of an advanced general education, to gain skills and knowledge suitable for various types of public or private employment, or to prepare for further work at the doctoral level. M.A. students are required to complete [POS 6736: The Conduct of Inquiry](#) and either [POS 6737: Political Data Analysis](#) or [STA 6126: Statistical Methods in Social Research I](#). Students may complete their M.A. degrees with or without writing a thesis. Students pursuing the thesis option must complete 30 hours of graduate course work. The thesis is expected to be of length and quality comparable to papers presented at professional academic conferences or published in academic journals. Students pursuing the nonthesis option must complete 36 semester hours of graduate course work and defend two qualifying papers. For both M.A. options, course work in political science, exclusive of core courses, must include a minimum of two graduate-level courses in one field of political science.

The M.A. degree may be taken in conjunction with the following certificate programs:

- Political campaigning
- Public affairs

Students in these certificate programs pursue the nonthesis option.

Public affairs: This program trains students for leadership positions in state, local, and national governments as well as for careers in nonprofit organizations by providing students with knowledge and skills in the areas of organization behavior, public budgeting and finances, public management, policy analysis, program evaluation, and computer applications. The curriculum consists of seminars in political science, public administration, public policy, process, state and local politics, and research methods. Supervised internships in selected agencies in Florida are arranged by the Department of Political Science as an integral part of the training program. This specialization requires 39 hours of course work plus satisfactory completion of a 3-hour internship at the discretion of the Department. Students must also defend a final management-policy paper that incorporates analytical and substantive expertise. Graduates of the program serve in a variety of professional positions, including city managers, heads of municipal departments, directors of nonprofit organizations, analysts for the state legislature, and budget analysts for the federal government. In addition to the M.A. degree in political science, students receive the Certificate in Public Affairs.

Political campaigning: The program is designed to provide students with the basic political skills, insights, and experience that are critical for success in the rapidly changing profession of politics and political consulting. The program combines an awareness of the academic literature on mass and elite behavior with exposure to the increasingly sophisticated techniques used by campaigns. Students take a total of 39 hours from four major areas:

- Courses required of all M.A. students
- Courses oriented to practical aspects of political campaigning and governmental affairs (lobbying), including a 3-credit campaign-related internship
- Courses placing campaigns and elections in the broader context of American politics
- Related courses offered by the College of Journalism and Communications

Entry-level jobs have included such positions as legislative aide, campaign (or deputy campaign) manager, polling analyst, state party political coordinator, general campaign consultant, and media relations. With additional experience, some former students have gone on to become state legislator (and later, member of the U.S. House of Representatives), deputy chief of staff to the governor of Florida, partner in a major Washington area polling firm, assistant to the Minister of Justice and Attorney General of Canada, and head lobbyist for a nationwide restaurant chain. In addition to the M.A. degree in political science, students receive the Certificate in Political Campaigning.

Law/Public Affairs joint degree program: This program culminates in the Master of Arts in political science and Juris Doctor degrees. A joint degree program culminating in the Master of

Arts in political science international relations and Juris Doctor degrees is also available. The joint program enables students to earn both the J.D. and the M.A. in less time than would be required to earn both degrees consecutively. Full-time students who make satisfactory progress can usually earn both degrees in 4 years. Candidates for the joint degree program must meet the entrance requirements for, and be admitted to, both the College of Law and the Department of Political Science. These requirements include both the LSAT and the GRE. Students are encouraged to announce their intent of seeking a joint degree as soon as possible. The Department of Political Science will allow 12 hours of appropriate law school courses to be credited toward the M.A. degree. The 12 credits selected from the law curriculum must be approved by the Political Science graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in political science graduate courses to be credited toward the J.D. degree. Students in the joint degree program are permitted, but not required, to pursue a companion certificate program in public affairs, political campaigning, or international development policy and administration.

Combined bachelor's/master's degree program: This combined program is designed for superior students who have the ability to pursue an accelerated program leading to the Bachelor of Arts and the Master of Arts degrees in political science or political science international relations.

Up to 12 semester hours of approved graduate-level political science courses may be used as credit for both the undergraduate and graduate degree. Applicants to the program must present

- Acceptable scores on the verbal, quantitative, and analytical writing portions of the GRE
- Completion of at least 24 semester hours at the University of Florida (including at least 12 semester hours of political science) with a GPA of 3.7 or higher
- Letters of recommendation from two faculty members in the Department of Political Science

The combined program is not recommended for students considering a Ph.D. program in political science at UF but is appropriate for those considering one of the M.A. degree plus certificate programs described above. Further information concerning this program is available from the departmental undergraduate and graduate coordinators.

Doctor of Philosophy: The Ph.D. program emphasizes preparation for academic careers through seminars, independent work with faculty, and professional development experiences including graduate paper readings, placement workshops, and a distinguished lecture series. The Ph.D. prepares students for teaching and research in either an academic or governmental environment and opens doors to other career opportunities in both the private and public sectors. The Ph.D. program emphasizes the development of strong analytic skills and sophisticated research methods. As resources permit, the Department provides students with funding for travel expenses to scholarly meetings and professional (methodological) training support. As part of the preparation for careers in academia, doctoral students are also generally expected to contribute to the teaching mission of the Department. All Ph.D. students must complete the following

- [POS 6736: The Conduct of Inquiry](#)
- [POS 6716: Scope and Epistemologies of Political Science](#)
- [POS 6737: Political Data Analysis](#)
- [POT 6505: Politics and Theory](#)
- Course work in a major and two minor fields of study
- Qualifying examinations in a major field and one minor field
- A dissertation

Fields of study open to Ph.D. students include comparative politics, American politics, public policy, international relations, political behavior, political theory, and political methodology. Applications are particularly welcome from students whose intellectual interests traverse these fields, including those with interests in religion and politics, state political institutions and policy, environmental politics, international development, and minority and ethnic politics.

University of Florida Ph.D. students benefit from associations with faculty in numerous other departments and centers. The Centers for Latin American Studies, African Studies, and European Studies, and the Asian Studies Program complement department faculty strengths in comparative politics and international relations. Students in the public policy concentration benefit from substantive expertise of faculty in the Institute for Child Health Policy, the Shimberg Center for Affordable Housing, and the Center for Gerontological Studies. Several faculty in the College of Journalism and Communications have interests in media and politics.

For more information, please see our website: <http://polisci.ufl.edu>.

Degrees Offered with a Major in Political Science

Doctor of Philosophy

without a concentration

concentration in Educational Policy

concentration in Tropical Conservation and Development

Master of Arts

without a concentration

concentration in International Development Policy and Administration

concentration in Public Affairs

concentration in Political Campaigning

concentration in Tropical Conservation and Development

Political Science Departmental Courses

- CPO 5935: Advanced Topics in Comparative Politics
- CPO 6046: Politics in Advanced Industrial Societies
- CPO 6059: Democracy and Its Competitors
- CPO 6077: Social Movements in Comparative Perspective
- CPO 6091: Introduction to Comparative Political Analysis
- CPO 6206: Seminar in African Politics
- CPO 6307: Latin American Politics I
- CPO 6732: Democratization and Regime Transition
- CPO 6736: Post-Communist politics
- CPO 6756: Comparative Elections and Party Systems
- CPO 6757: The European Union In Comparative Perspective
- CPO 6786: Peasant Politics and Society
- CPO 6795: Environmental Politics
- CPO 6796: Water Politics
- INR 5935: Advanced Topics in International Relations
- INR 6036: Globalization, Regionalism, and Governance
- INR 6039: International Political Economy
- INR 6208: Advanced International Relations Theory
- INR 6213: Seminar: Politics of the European Union
- INR 6249: Inter-American Relations
- INR 6305: Politics of American Foreign Policy Making
- INR 6337: Survey of International Security
- INR 6352: International Environmental Relations
- INR 6507: International Organization
- INR 6607: International Relations Theory
- INR 6936: Seminar in Transnational and Global Studies
- INR 6938: Seminar in Culture and World Politics
- PAD 5935: Advanced Topics in Public Administration
- PAD 6108: Public Administration Theory
- PAD 6227: Public Budgeting and Finance
- PAD 6434: Leadership and Ethics in Public Agencies
- POS 6458: Politics of Campaign Finance
- PAD 6946: Internship in Government
- POS 5935: Advanced Topics in Political Science
- POS 6045: Seminar in American Politics
- POS 6048: American Political Development
- POS 6127: State Government and Politics
- POS 6146: Urban Politics
- POS 6157: Community Analysis
- POS 6196: Patrons, Clients, Corruption, and Accountability
- POS 6207: Political Behavior
- POS 6208: Empirical Political Research
- POS 6272: Political Participation
- POS 6274: Political Campaigning
- POS 6278: Advanced Campaign Strategy
- POS 6279: The Politics of Direct Democracy
- POS 6292: Religion and Politics
- POS 6427: Legislative Process
- POS 6453: Political Parties and Interest Groups
- POS 6476: Bureaucratic Politics in the U.S.
- POS 6707: Qualitative Research Methods for Political Science
- POS 6712: Empirical Theories of Politics
- POS 6716: Scope and Epistemologies of Political Science
- POS 6736: The Conduct of Inquiry
- POS 6737: Political Data Analysis
- POS 6747: Topics in Political Research Methodology
- POS 6757: Survey Research
- POS 6909: Individual Work
- POS 6910: Supervised Research
- POS 6933: Special Topics
- POS 6940: Supervised Teaching
- POS 6971: Research for Master's Thesis
- POS 7979: Advanced Research
- POS 7980: Research for Doctoral Dissertation
- POT 5935: Advanced Topics in Political Theory
- POT 6016: Ancient Political Thought

- POT 6056: Modern Political Thought
- POT 6067: Contemporary Political Theory
- POT 6306: Liberalism and Its Critics
- POT 6314: Democratic Theory
- POT 6416: The Marxist Tradition and its Critics
- POT 6505: Politics and Theory
- POT 6516: Political Judgment
- PUP 5935: Advanced Topics in Public Policy
- PUP 6006: Policy Evaluation
- PUP 6007: Policy Process
- PUP 6009: Public Policy Analysis
- PUP 6315: Race, Gender, and Politics

Political Science - International Relations

College

[College of Liberal Arts and Sciences](#)

Department/School

[Political Science Department](#)

Political Science--International Relations Program Information

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) directly or visit [their departmental catalog page](#).

Admission to graduate study in the Department of Political Science normally requires the completion of an undergraduate major in political science or its equivalent. Students without this preparation may be required to make up deficiencies early in their graduate work. The core sequence begins in the fall term, providing basic knowledge that students need in later semesters. In evaluating candidates for admission, the Department considers

- Prior academic achievement
- GRE scores
- Letters of recommendation from three faculty members or others familiar with the academic potential or work habits of the applicant
- A statement of purpose that conveys intellectual ambitions, indicates how the program of study satisfies the student's interests and goals, and tells how the student would contribute to the program.

Political science--international relations: The M.A. degree in political science-- international relations is designed to provide professional education to those whose primary interest is a career in foreign relations. In this program, students must complete course work in the core of international relations theory and in two or more of the four major subfields of international relations, international political economy, international security, foreign policy, and international organization. The M.A. is a 36-hour degree, requiring successful completion of a 6-credit political science core sequence, 15 credits of departmental or extra-department electives, and a 15- credit international relations major. Students may pursue either a thesis option or take a comprehensive examination at the end of the program.

Law/Public Affairs joint degree program: This program culminates in the Master of Arts in political science and Juris Doctor degrees. A joint degree program culminating in the Master of Arts in political science international relations and Juris Doctor degrees is also available. The joint program enables students to earn both the J.D. and the M.A. in less time than would be required to earn both degrees consecutively. Full-time students who make satisfactory progress can usually earn both degrees in 4 years. Candidates for the joint degree program must meet the entrance requirements for, and be admitted to, both the College of Law and the Department of Political Science. These requirements include both the LSAT and the GRE. Students are encouraged to announce their intent of seeking a joint degree as soon as possible. The Department of Political Science will allow 12 hours of appropriate law school courses to be credited toward the M.A. degree. The 12 credits selected from the law curriculum must be approved by the Political Science graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in political science graduate courses to be credited toward the J.D. degree. Students in the joint degree program are permitted, but not required, to pursue a companion certificate program in public affairs, political campaigning, or international development policy and administration.

Combined bachelor's/master's degree program: This combined program is designed for superior students who have the ability to pursue an accelerated program leading to the Bachelor of Arts and the Master of Arts degrees in political science or political science international relations.

Up to 12 semester hours of approved graduate-level political science courses may be used as credit for both the undergraduate and graduate degree. Applicants to the program must present

- Acceptable scores on the verbal, quantitative, and analytical writing portions of the GRE
- Completion of at least 24 semester hours at the University of Florida (including at least 12 semester hours of political science) with a GPA of 3.7 or higher
- Letters of recommendation from two faculty members in the Department of Political Science

The combined program is not recommended for students considering a Ph.D. program in political science at UF but is appropriate for those considering one of the M.A. degree plus certificate programs described above. Further information concerning this program is available from the departmental undergraduate and graduate coordinators.

Degrees

Master of Arts

Master of Arts in Teaching

Political Science Departmental Courses

- CPO 5935: Advanced Topics in Comparative Politics
- CPO 6046: Politics in Advanced Industrial Societies
- CPO 6059: Democracy and Its Competitors
- CPO 6077: Social Movements in Comparative Perspective
- CPO 6091: Introduction to Comparative Political Analysis
- CPO 6206: Seminar in African Politics
- CPO 6307: Latin American Politics I
- CPO 6732: Democratization and Regime Transition
- CPO 6736: Post-Communist politics
- CPO 6756: Comparative Elections and Party Systems
- CPO 6757: The European Union In Comparative Perspective
- CPO 6786: Peasant Politics and Society
- CPO 6795: Environmental Politics
- CPO 6796: Water Politics
- INR 5935: Advanced Topics in International Relations
- INR 6036: Globalization, Regionalism, and Governance
- INR 6039: International Political Economy
- INR 6208: Advanced International Relations Theory
- INR 6213: Seminar: Politics of the European Union
- INR 6249: Inter-American Relations
- INR 6305: Politics of American Foreign Policy Making
- INR 6337: Survey of International Security
- INR 6352: International Environmental Relations
- INR 6507: International Organization
- INR 6607: International Relations Theory
- INR 6936: Seminar in Transnational and Global Studies
- INR 6938: Seminar in Culture and World Politics
- PAD 5935: Advanced Topics in Public Administration
- PAD 6108: Public Administration Theory
- PAD 6227: Public Budgeting and Finance
- PAD 6434: Leadership and Ethics in Public Agencies
- POS 6458: Politics of Campaign Finance
- PAD 6946: Internship in Government
- POS 5935: Advanced Topics in Political Science
- POS 6045: Seminar in American Politics
- POS 6048: American Political Development
- POS 6127: State Government and Politics
- POS 6146: Urban Politics
- POS 6157: Community Analysis
- POS 6196: Patrons, Clients, Corruption, and Accountability
- POS 6207: Political Behavior
- POS 6208: Empirical Political Research
- POS 6272: Political Participation
- POS 6274: Political Campaigning
- POS 6278: Advanced Campaign Strategy
- POS 6279: The Politics of Direct Democracy
- POS 6292: Religion and Politics
- POS 6427: Legislative Process
- POS 6453: Political Parties and Interest Groups
- POS 6476: Bureaucratic Politics in the U.S.
- POS 6707: Qualitative Research Methods for Political Science
- POS 6712: Empirical Theories of Politics
- POS 6716: Scope and Epistemologies of Political Science
- POS 6736: The Conduct of Inquiry
- POS 6737: Political Data Analysis
- POS 6747: Topics in Political Research Methodology
- POS 6757: Survey Research
- POS 6909: Individual Work
- POS 6910: Supervised Research
- POS 6933: Special Topics
- POS 6940: Supervised Teaching
- POS 6971: Research for Master's Thesis
- POS 7979: Advanced Research
- POS 7980: Research for Doctoral Dissertation
- POT 5935: Advanced Topics in Political Theory
- POT 6016: Ancient Political Thought
- POT 6056: Modern Political Thought
- POT 6067: Contemporary Political Theory
- POT 6306: Liberalism and Its Critics
- POT 6314: Democratic Theory

- POT 6416: The Marxist Tradition and its Critics
- POT 6505: Politics and Theory
- POT 6516: Political Judgment
- PUP 5935: Advanced Topics in Public Policy
- PUP 6006: Policy Evaluation
- PUP 6007: Policy Process
- PUP 6009: Public Policy Analysis
- PUP 6315: Race, Gender, and Politics

Psychology Department

[College of Liberal Arts and Sciences](#)

Chair: Lise Abrams

Graduate Coordinator: Julia A. Graber

Complete faculty listing by department: [Follow this link.](#)

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

For more information, please see the program page below and our website: <http://www.psych.ufl.edu>.

Other

Counseling Psychology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Psychology Department](#)

Degrees Offered with a Major in Counseling Psychology

Doctor of Philosophy

Psychology Departmental Courses

- CBH 6056: Comparative Psychology
- CLP 6169: Seminar: Psychology and Deviant Behavior
- CLP 7525: Best Methods for Studying Psychological Change
- DEP 6057: Advanced Developmental Psychology I
- DEP 6058: Advanced Developmental Psychology II
- DEP 6059: Seminar: Special Topics in Developmental Psychology
- DEP 6099: Survey of Developmental Psychology
- DEP 6216: Psychological Disturbances of Children
- DEP 6406: Advanced Adulthood and Aging
- DEP 6409: Seminar: Adult Development and Aging
- DEP 6799: Current Research Methods in Developmental Psychology
- DEP 6936: Current Research in Developmental Psychology
- DEP 7608: Theories of Developmental Psychology
- EAB 5436: Behavioral Pharmacology
- EAB 6099: Survey of Behavior Analysis
- EAB 6118: Theoretical Foundations of Behavior Analysis
- EAB 6707: Applied Behavior I
- EAB 6712: Experimental Psychopathology
- EAB 6716: Behavior Analysis in Developmental Disabilities
- EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research
- EAB 6750: Quantitative Methods
- EAB 6780: Ethics and Professional Issues
- EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior

- EAB 6939: Seminar: Special Topics in Applied Behavior Analysis
- EAB 7089: Advanced Seminar: Experimental Analysis of Behavior
- EAB 7090: Verbal Behavior
- EXP 6099: Survey of Cognition and Sensory Processes
- EXP 6609: Seminar: Cognition
- EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes
- GEY 7408: Psychotherapy with Older Adults
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 7431: Advanced Family Counseling
- PCO 6057: Psychology of Counseling I
- PCO 6058: Psychology of Counseling II
- PCO 6059: Psychology of Counseling III
- PCO 6278: Diversity and Multiculturalism in Counseling Psychology
- PCO 6316C: Psychological Assessment I
- PCO 6317C: Psychological Assessment II
- PCO 6931: History and Contemporary Issues in Counseling Psychology
- PCO 6939: Seminar: Current Topics in Counseling Psychology
- PCO 7217: Professional Ethics and Skills in Counseling Psychology
- PCO 7247: Group Counseling/Psychology
- PCO 7537: Vocational Psychology
- PCO 7944: Practicum in Counseling Psychology
- PCO 7945: Advanced Practicum in Counseling Psychology
- PCO 7949: Internship in Counseling Psychology
- PPE 6059: Seminar in Personality
- PSB 5445: Drug Use and Abuse
- PSB 5935: Seminar in Physiological Psychology
- PSB 6082: Neuroethology
- PSB 6087: Advanced Physiological Psychology
- PSB 6088L: Behavioral Neurobiology
- PSB 6099: Survey of Physiological and Comparative Psychology
- PSB 7248: Neurobehavioral Relations
- PSB 7249: Seminar in Neural Mechanisms and Behavior
- PSY 6608: History of Psychology
- PSY 6905: Individual Work
- PSY 6910: Supervised Research
- PSY 6930: Topics in Psychology
- PSY 6939: Seminar: The Teaching of Psychology
- PSY 6940: Supervised Teaching
- PSY 6971: Research for Master's Thesis
- PSY 7979: Advanced Research
- PSY 7980: Research for Doctoral Dissertation
- SOP 6099: Survey of Social Psychology
- SOP 6219C: Advanced Research Techniques in Social-Personality Psychology
- SOP 6409: Seminar: Current Topics in Social-Personality Psychology
- SOP 6419: Seminar: Attitudes and Social Cognition
- SOP 6509: Seminar: Interpersonal Relations and Group Processes
- SOP 6929: Colloquium on Research in Social-Personality Psychology

Psychology (Psychology - CLAS)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Psychology Department](#)

Psychology Program Information

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

Doctoral areas of specialization include the research areas of developmental, behavior analysis, behavioral and cognitive neuroscience, social psychology, and counseling psychology. The training program in counseling psychology is accredited by the American Psychological Association. A predoctoral internship of one year is required for the counseling psychology program.

Undergraduate preparation should include at least one course in experimental methods and one course in statistics. Other courses in psychology should include at least three or four of the following: cognition, developmental, learning, personality, physiological, sensory, and social. Applicants should have competitive GRE scores and GPA (3.5 or higher).

Co-major: The Department offers a co-major program in conjunction with the College of Education leading to the Doctor of Philosophy degree in psychology and research and evaluation methodology.

Degrees

Doctor of Philosophy

without a concentration

concentration in Women's/Gender Studies

Master of Arts

Master of Science

without a concentration

Psychology Departmental Courses

- CBH 6056: Comparative Psychology
- CLP 6169: Seminar: Psychology and Deviant Behavior
- CLP 7525: Best Methods for Studying Psychological Change
- DEP 6057: Advanced Developmental Psychology I
- DEP 6058: Advanced Developmental Psychology II
- DEP 6059: Seminar: Special Topics in Developmental Psychology
- DEP 6099: Survey of Developmental Psychology
- DEP 6216: Psychological Disturbances of Children
- DEP 6406: Advanced Adulthood and Aging
- DEP 6409: Seminar: Adult Development and Aging
- DEP 6799: Current Research Methods in Developmental Psychology
- DEP 6936: Current Research in Developmental Psychology
- DEP 7608: Theories of Developmental Psychology
- EAB 5436: Behavioral Pharmacology
- EAB 6099: Survey of Behavior Analysis
- EAB 6118: Theoretical Foundations of Behavior Analysis
- EAB 6707: Applied Behavior I
- EAB 6712: Experimental Psychopathology
- EAB 6716: Behavior Analysis in Developmental Disabilities
- EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research
- EAB 6750: Quantitative Methods
- EAB 6780: Ethics and Professional Issues
- EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior
- EAB 6939: Seminar: Special Topics in Applied Behavior Analysis
- EAB 7089: Advanced Seminar: Experimental Analysis of Behavior
- EAB 7090: Verbal Behavior
- EXP 6099: Survey of Cognition and Sensory Processes
- EXP 6609: Seminar: Cognition
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- PCO 6939: Seminar: Current Topics in Counseling Psychology
- PCO 7217: Professional Ethics and Skills in Counseling Psychology
- PCO 7247: Group Counseling/Psychology
- PCO 7537: Vocational Psychology
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- PCO 7945: Advanced Practicum in Counseling Psychology
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- PSB 6082: Neuroethology
- PSB 6087: Advanced Physiological Psychology
- PSB 6088L: Behavioral Neurobiology
- PSB 6099: Survey of Physiological and Comparative Psychology
- PSB 7248: Neurobehavioral Relations
- PSB 7249: Seminar in Neural Mechanisms and Behavior
- PSY 6608: History of Psychology
- PSY 6905: Individual Work
- PSY 6910: Supervised Research
- PSY 6930: Topics in Psychology
- PSY 6939: Seminar: The Teaching of Psychology
- PSY 6940: Supervised Teaching
- PSY 6971: Research for Master's Thesis
- PSY 7979: Advanced Research
- PSY 7980: Research for Doctoral Dissertation
- SOP 6099: Survey of Social Psychology
- SOP 6219C: Advanced Research Techniques in Social-Personality Psychology
- SOP 6409: Seminar: Current Topics in Social-Personality Psychology
- SOP 6419: Seminar: Attitudes and Social Cognition
- SOP 6509: Seminar: Interpersonal Relations and Group Processes
- SOP 6929: Colloquium on Research in Social-Personality Psychology

Religion Department

Chair: Manuel A. Vazquez.

Graduate Coordinator: David G. Hackett

Complete faculty listing by department: [Follow this link.](#)

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the *General Information* section of this catalog

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://religion.ufl.edu/graduate-studies/> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours

credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 15 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://religion.ufl.edu/graduate-studies/>.

Other

Religion

College

[College of Liberal Arts and Sciences](#)

Department/School

[Religion Department](#)

Religion Program

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://www.religion.ufl.edu> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the

specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 12 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://www.religion.ufl.edu>.

Degrees Offered with a Major in Religion

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Jewish Studies

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Courses

- REL 5***
- RLG 5143: Religion and Social Change
 - REL 5187
- RLG 5195: Topics in Religion and Society
 - REL 5199
- RLG 5297: Topics in Biblical Studies
- RLG 5338: Topics in Asian Religions
- RLG 5365: Studies in Islam
- RLG 5396: Religion and Animals
- RLG 5495: Topics in Religious Thought
- RLG 5549: Studies in Christianity
- RLG 5696: Topics in Jewish Thought
- RLG 5906: Individual Work
- RLG 5937: Topics in Religious Studies
 - REL 5xxxA
 - REL 5xxxB
 - REL 5xxxC
 - REL 6***
- RLG 6035: Method and Theory I
- RLG 6036: Method and Theory II
- RLG 6095: Utopias and Dystopias
- RLG 6107: Core Seminar in Religion and Nature
- RLG 6125: Religion and Politics in the Americas
- RLG 6129: Hindu Traditions in America
- RLG 6137: Religion in North America
- RLG 6138: New Religious Movements
- RLG 6126: Religion in the Americas
- RLG 6167: Radical Environmentalism
- RLG 6181: Ethics and the Natural Sciences
- RLG 6183: Religion and Environmental Ethics
- RLG 6187: Nature in Asian Religions
- RLG 6196: Globalizing the Sacred
- RLG 6319: Interpreting Asian Religions
- RLG 6339: Women in the Hindu Tradition
- RLG 6346: Buddhist Traditions
- REL 6347: American Buddhism
- REL 6368: Islam in Asia
- RLG 6310: Religion and Nature in South Asia
- RLG 6385: Native Religions in the Americas
- RLG 6387: Religions in Latin America
- REL 6397: Hindu Sacred Texts and Their Ritual Context
- RLG 6910: Supervised Research
- RLG 6940: Supervised Teaching
- RLG 6957: Overseas Studies in Religion
- RLG 6971: Research for Master's Thesis
 - REL 6xxxA
 - REL 6xxxB
- RLG 7979: Advanced Research
- RLG 7980: Research for Doctoral Dissertation
- SRK 6905: Individual Study in Sanskrit

Spanish and Portuguese Studies Department

Chair: G. Lord

Graduate Coordinator: L. Álvarez Castro

Complete faculty listing by department: [Follow this link.](#)

The Department of Spanish and Portuguese Studies offers a Master of Arts degree (M.A.) in Spanish (thesis and non-thesis options) and a Doctor of Philosophy degree (Ph.D.) in Romance Languages and Literatures, with a concentration in Spanish. Descriptions of the minimum requirements for both degrees are provided in the General Information section of this catalog. For specific information about the program, please visit the graduate section of the departmental webpage:

<http://www.spanishandportuguese.ufl.edu/spanish/graduate.html>

Candidates for graduate degrees (both M.A. and Ph.D.) in Spanish can choose between two specializations—literature/culture or linguistics. In conjunction with their master's or doctoral work, students may also earn a Certificate in Latin American Studies. Though a graduate degree is not offered in Portuguese, extensive course offerings at the graduate level permit students to develop a strong specialization in Portuguese language and Luso-Brazilian literature, film and culture.

The main prerequisite for admission to the M.A. program is an undergraduate major in Spanish, ideally including advanced courses in the proposed area of specialization. Applicants for the Ph.D. should hold an M.A. or equivalent degree in Spanish. At the discretion of the Graduate Studies Committee, candidates from related fields of study (History, Sociology...) may be offered a conditional admission into the Ph.D. program pending the passing of the M.A. Comprehensive Examination within the first year of study.

All M.A. and Ph.D. students in Spanish who are appointed as teaching assistants must take Romance Language Teaching Methods (FOL/ [FOL 6943](#)). Besides, all M.A. and Ph.D. students specializing in literature and culture must take Introduction to Graduate Study and Research ([SPW 6806](#)). Other requirements vary with degree and specialization. For details, consult the graduate section of the departmental webpage (see above).

The Department is able to offer most students a teaching assistantship that provides a maintenance stipend and includes a tuition waiver. Contingent on positive performance in teaching and graduate work, M.A. students are guaranteed four semesters of support, and Ph.D. students are guaranteed eight semesters of support beyond the M.A. In addition, there are several fellowships, supplements and stipends for which students may apply, and summer teaching may be available.

Prospective students are encouraged to review the departmental webpage in order to familiarize themselves with the program and the application process. Only those applications including all required materials and submitted by the advertised deadlines will be considered. For any questions about the program or how to apply, please contact the graduate coordinator:

lcastro@ufl.edu.

Highly qualified UF undergraduate students majoring in Spanish may apply for a combined B.A./M.A. program in Spanish that allows up to 12 graduate credits to be counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details.

Other

Romance Languages (Spanish and Portuguese Studies)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Spanish and Portuguese Studies Department](#)

Degrees Offered with a Major in Romance Languages

Doctor of Philosophy

concentration in Spanish

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language

- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Spanish

College

[College of Liberal Arts and Sciences](#)

Department/School

[Spanish and Portuguese Studies Department](#)

Degrees

Master of Arts

Master of Arts in Teaching

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work

- POW6930: Rotating Topics in Brazilian or Portuguese Literature

Statistics Department

Chair: M. J. Daniels

Graduate Coordinator: J. P. Hobert

Complete faculty listing: [Follow this link.](#)

Graduate programs are available leading to Master of Science in Statistics, Master of Statistics, and Doctor of Philosophy degrees. Minimum requirements for these degrees are described in the *General Information* section of this catalog.

Both master's programs usually require 2 years of course work including material covered in [STA 6208](#), 6208, [STA 6326](#), [STA 6327](#), [STA 6246](#), and [STA 6329](#). In addition to earning a "Ph.D. pass" on the first-year evaluation, requirements for the Ph.D. degree include STA 6466, 6467, [STA 7249](#), and [STA 7346](#).

Interdisciplinary programs: The Department offers a co-major program in conjunction with the Fisher School of Accounting leading to the Doctor of Philosophy degree in statistics and business administration accounting. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Departments of Mathematics; Industrial and Systems Engineering; and Finance, Insurance, and Real Estate. For information on these programs, consult the departmental graduate coordinator.

Combined program: The Department offers a bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Statistics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Statistics Department](#)

Degrees Offered with a Major in Statistics

Doctor of Philosophy

without a concentration

concentration in Quantitative Finance

Master of Science in Statistics

Master of Statistics

Statistics Departmental Courses

- STA5106: Computer Programs in Statistical Analysis

- STA5223: Applied Sample Survey Methods
- STA5325: Fundamentals of Probability
- STA5328: Fundamentals of Statistical Theory
- STA5503: Categorical Data Methods
- STA5507: Applied Nonparametric Methods
- STA5701: Applied Multivariate Methods
- STA5715: Applied Survival Analysis
- STA5823: Stochastic Process Methods
- STA5856: Applied Time Series Methods
- STA6092: Applied Statistical Practice
- STA6126: Statistical Methods in Social Research I
- STA6127: Statistical Methods in Social Research II
- STA6166: Statistical Methods in Research I
- STA6167: Statistical Methods in Research II
- STA6177: Applied Survival Analysis
- STA6178: Genetic Data Analysis
- STA6207: Regression Analysis
- STA6208: Basic Design and Analysis of Experiments
- STA6209: Design and Analysis of Experiments
- STA6226: Sampling Theory and Application
- STA6246: Theory of Linear Models
- STA6326: Introduction to Theoretical Statistics I
- STA6327: Introduction to Theoretical Statistics II
- STA6329: Matrix Algebra and Statistical Computing
- STA6505: Analysis of Categorical Data
- STA6526: Nonparametric Statistics
- STA6707: Analysis of Multivariate Data
- STA6826: Stochastic Processes
- STA6857: Time Series Analysis
- STA6866: Monte Carlo Statistical Methods
- STA6905: Individual Work
- STA6910: Supervised Research
- STA6934: Special Topics in Statistics
- STA6938: Seminar
- STA6940: Supervised Teaching
- STA6942: Internship
- STA6971: Research for Master's Thesis
- STA7179: Survival Analysis
- STA7249: Generalized Linear Models
- STA7334: Limit Theory
- STA7346: Statistical Inference
- STA7347: Advanced Inference
- STA7348: Bayesian Theory
- STA7466: Probability Theory I
- STA7467: Probability Theory II
- STA7527: Theory of Nonparametric Statistics
- STA7828: Topics in Stochastic Processes
- STA7934: Special Topics in Statistics
- STA7979: Advanced Research
- STA7980: Research for Doctoral Dissertation

Women's Studies Department

Director: Bonnie Moradi

Graduate Coordinator: Kendal Broad

Complete faculty listing by department: [Follow this link.](#)

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as a two certificates. These options give students the opportunity to take advantage of scholarship in this dynamic field, and to become acquainted with different research perspectives and methodologies. Students become well grounded in theories of gender in cultural systems and in ways that gender intersects with other categories of difference such as race, ethnicity, religion, class, sexuality, nation, physical and mental ability, age, and economic and civil status. Faculty and students employ feminist and other appropriate theoretical approaches and methodologies.

The Center offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring. The Center in Ustler Hall houses archives, a small library, offices, and meeting space.

For more information about our program, please see the program page below or our website: <http://web.wst.ufl.edu>.

Other

Women's Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Women's Studies Department](#)

Women's Studies Program Information

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as a two certificates. The Center also offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring.

Master of Arts (thesis and non-thesis): The Center offers the Master of Arts (M.A.) thesis degree option, which requires the completion and defense of a thesis (30 credit hours), and the Master of Arts non-thesis degree option, which requires completion and defense of a project or paper (30 credit hours). All Master's students take a core curriculum of 9 graduate credits (3 courses). For the thesis M.A., the remaining 21 hours consist of 15 credits of approved electives and 6 thesis credits. For the non-thesis M.A., 21 credits of approved electives are required.

Required courses for all MA students (9 credits):

- [WST 5933: Proseminar in Women's Studies](#)
- [WST 6508: Advanced Feminist Theory](#)
- [WST 6935: Special Topics in Women's Studies](#)

Thesis

15 approved credits at 5000-level or higher

6 credits of [WST 6971: Research for Master's Thesis](#)

(3 of which must be taken in the final graduating term)

Total for MA thesis: 30 credits

Non-thesis

21 approved credits at 5000-level or higher;

at least 6 of these credits must be classes in WST.

Total for MA non-thesis: 30 credits

BA/ MA Program: UF offers a number of Bachelor's/Master's programs for superior students. The university created combined degree programs to provide academically talented students an opportunity to complete both a bachelor's and a master's degree in a shorter period of time. The program allows you to double-count graduate courses toward both degrees, thus reducing the time it would normally take to graduate by a semester or more. The combined-degree program reduces the cost of both degrees and enhances your marketability for career advancement.

Concurrent degree -MA in Women's Studies and an MA in Mass Communications (MAMC) with specialization in Journalism: When appropriate, the Center for Women's Studies and Gender Research will work with individual students to develop a collaborative degree program with the College of Journalism and Communication. At the University of Florida, students may apply to complete Master's degrees in two different programs or two Master's degrees in the same program concurrently. Those interested should discuss the proposed study with the office of Graduate Student Records (392-4643, 106 Grinter) before applying. Written approval is needed from each academic unit and the Graduate School Dean. The student must be officially admitted to both programs through regular procedures. No more than 9 credits from the first program may be applied toward the second.

M.A./J.D. Joint Degree: The faculties of the Levin College of Law and Women's Studies in the College of Liberal Arts and Sciences have approved a joint degree program culminating in both a J.D. degree, awarded by the College of Law, and an M.A. degree (thesis or non-thesis), awarded by the College of Liberal Arts and Sciences. Under this joint degree program, a student can obtain both degrees in approximately one year less than it would take to obtain both degrees if pursued consecutively. A student must satisfy the curriculum requirements for each degree before either degree is awarded. At least 12 credits must be taken in each program. The graduate program in Women's Studies will accept 12 credits of appropriate professional courses toward the M.A. degree. The 12 credits selected from the professional curriculum must be approved by the Graduate Coordinator upon the recommendation of the student's graduate supervisory committee. Reciprocally, the law school will accept 12 credits of appropriate Women's Studies courses toward the satisfaction of the J.D. degree. Admission to the second program is required no later than the end of the third consecutive semester after beginning one degree of the joint degree program. A summer term is counted as a single semester.

Certificates (M.A. or Ph.D. level): Two graduate certificates in Women's Studies for master's and doctoral students are offered in conjunction with degree programs in other academic units. The Graduate Certificate in Women's Studies and the Graduate Certificate in Gender and Development require specific sets of course work, designed to give students a thorough grounding in the discipline. The Graduate Certificate in Women's Studies offers students a general overview of the field. The Graduate Certificate in Gender and Development allows students to focus on issues related to gender, economic development, and globalization.

Graduate courses in women's studies are also available from the following academic units or programs:

- Agricultural and Life Sciences
- Anthropology
- Counselor Education
- English
- History
- Journalism and Communication
- Languages, Literatures, and Cultures
- Latin American Studies
- Linguistics
- Medicine
- Philosophy
- Psychology
- Religion
- Sociology
- Teaching and Learning

For more information, please see our website: <http://web.wst.ufl.edu>.

Degrees Offered with a Major in Women's Studies

Master of Arts

Courses

- WST 5933: Proseminar in Women's Studies
- WST 6348: Ecofeminism
- WST 6508: Advanced Feminist Theory
- WST 6905: Independent Study
- WST 6935: Special Topics in Women's Studies
- WST 6936: Feminist Challenges to Disciplinary Paradigms
- WST 6946: Internship in Applied Women's Studies and Gender Research
- WST 6957: International Studies in Women's Studies and Gender Research
- WST 6971: Research for Master's Thesis

Departments and Programs within the College of Medicine

College of Medicine

Dean: M.L. Good

Complete faculty listings: [Follow this link.](#)

The College of Medicine offers training opportunities leading to either the Doctor of Philosophy or Master of Science degree in medical sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For more information, please see our website: <http://med.ufl.edu>.

The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings. For further information, visit <http://idp.med.ufl.edu>.

[Departments and Programs within the College of Medicine](#)

[College of Medicine Courses](#)

Other

Genetics and Genomics

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Medicine](#)

Degrees Offered with a Major in Genetics and Genomics

Doctor of Philosophy

Doctor of Philosophy - Clinical and Translational Science

Courses

- AGR 6322: Advanced Plant Breeding
- ANG 6532: Molecular Genetics of Disease
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 7410: Advanced Gene Regulation
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5805: Computer Simulation Concepts
- CIS 6930: Special Topics in CIS
- COT 5405: Analysis of Algorithms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6934: Topics in Forest Resources and Conservation

- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6920: Genetics Journal Colloquy
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- HOS 6201: Breeding Perennial Cultivars
- PCB 5065: Advanced Genetics
- PCB 5235L: Experiments in Immunology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6178: Genetic Data Analysis
- STA 6208: Basic Design and Analysis of Experiments
- STA 6329: Matrix Algebra and Statistical Computing
- STA 6934: Special Topics in Statistics
- STA 7979: Advanced Research
- STA 7980: Research for Doctoral Dissertation
- ZOO 6927: Special Topics in Zoology
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology

- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy

- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Medical Sciences

College

[College of Medicine](#)

Interdisciplinary Program in Biomedical Sciences

Dean: M. L. Good.

Associate Dean for Graduate Education: P. A. Gulig

Complete faculty listing: [Follow this link.](#)

The College of Medicine offers training opportunities leading to either the Doctor of Philosophy or Master of Science degree in medical sciences. Minimum requirements for these degrees are given in the General Information section of this catalog. The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings.

Interdisciplinary Program (IDP) in Biomedical Sciences

The goal of the IDP is to prepare students for a diversity of careers in research and teaching in academic and commercial settings, after completion of the Ph.D. in Medical Sciences. The program provides a modern, comprehensive graduate education in biomedical sciences while providing both maximum program flexibility and appropriate specialization for advanced training. The IDP represents a cooperative effort of six interdisciplinary advanced concentrations with participation of over 250 faculty members.

During the first semester of study, students undertake a common, comprehensive interdisciplinary core curriculum of classroom study and a responsible conduct of research course. During the second semester, students begin to focus their coursework in one or two concentrations. Throughout the first two semesters, students participate in at least three laboratory rotations in any of the laboratories of the IDP faculty members. The advanced concentration and the supervisory committee chair are chosen no later than the end of the spring semester to maximize flexibility and facilitate an informed decision. Students entering the advanced concentrations take more specialized courses that strengthen their knowledge of these disciplines. The advanced concentration curricula are flexible enough to allow students to integrate course work offered in other advanced concentrations. In addition, journal clubs and seminars associated with their research interests allow students to further augment their scientific development.

Prospective students should have strong backgrounds in biology including genetics, chemistry (organic, quantitative, and biochemistry), physics, and calculus. Demonstrated high motivation and a serious intention to pursue research-related careers are also important considerations. This is best accomplished by performing independent study in a research laboratory for at least a semester, with a year or more being preferred. For more information, write IDP, P.O. Box 100229, College of Medicine, Gainesville, FL 32610-0229. For expanded information about the IDP, visit <http://idp.med.ufl.edu>.

Advanced Concentration in Biochemistry and Molecular Biology

Directors: Robert McKenna and Kevin Brown

The Graduate Faculty of the biochemistry and molecular biology advanced concentration share an interest in the relationships between the structure of a biological macromolecule and the function of that molecule in the cell. The structure (encoded ultimately by the genome) sets the phenotype of the organism. The unifying theme among the Graduate Faculty is their approach to research: Each uses the techniques of biochemistry and molecular biology/genetics to characterize the function of a macromolecule and show how function (and the process it is part of) is determined by the structure of that molecule and its interactions with other macromolecules. Specific research directions range from physical determination of the molecular structure of proteins to regulation of cellular processes to the genetic mapping of disease loci.

For information about other programs and courses in this field, see the Department of Biochemistry and Molecular Biology listing.

Advanced Concentration in Biochemistry and Molecular Biology Courses

- BCH 6040: Research Discussion in Biochemistry and Molecular Biology
- BCH 6107: Biophysical Techniques in Proteomics and Protein Science
- BCH 6206: Advanced Metabolism
- BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control
- BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism
- BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems
- BCH 6744: Molecular Structure Determination by X-ray Crystallography
- BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy
- BCH 6746: Structural Biology: Macromolecular Structure Determination
- BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics
- BCH 6749C: Numerical Methods in Structural Biology
- BCH 6876: Recent Advances in Membrane Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- BCH 6936: Biochemistry Seminar
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics
- GMS 6195: Epigenetics Journal Club

Advanced Concentration in Cancer Biology

Directors: Dietmar Siemann and Maria Zajac-Kaye

The Cancer Biology Concentration (CBC) provides training opportunities in cancer research ranging from basic to translational. The program spans many disciplines, including molecular and cell biology, genetics and epigenetics, biochemistry, microbiology, pharmacology, anatomy, pathology, epidemiology, bioinformatics, immunology and many others involved in the understanding of the development, progression, dissemination, and treatment of cancer.

Students in the will have opportunities to work with outstanding cancer investigators in state of the art facilities. Through combinations of courses, seminars, small group discussions, and an interdisciplinary approach to research, the program allows students to gain a unique understanding of cancer and to build a firm foundation upon which they can build careers in academia, government, and biotech and pharmaceutical industry.

For more information please see our website: <http://idp.med.ufl.edu/about/cancer-biology-concentration>

Advanced Concentration in Cancer Biology Courses

- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6009: Principles of Drug Action
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6090: Research in Medical Sciences
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6338: Recent Advances in Cancer Metastasis
- GMS 6421: Cell Biology
- GMS 6644: Apoptosis
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 6691: Special Topics in Cell Biology and Anatomy
- GMS 6812: Cancer Health Outcomes Assessment
- GMS 6818: Design and Conduct Clinical Trials I
- PHC 6937: Special Topics in Public Health

Advanced Concentration in Genetics

Director: M. R. Wallace

The concentration in genetics offers graduate training in all facets of modern molecular genetics including bacterial, viral, lower eukaryotic, mouse, developmental, and human genetics. The courses listed are taught in a 5-week modular format.

Advanced Concentration in Genetics Courses

- BCH 7410: Advanced Gene Regulation
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6181: Special Topics in Microbiology
- GMS 6195: Epigenetics Journal Club
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6506: Biologic Drug Development
- GMS 6920: Genetics Journal Colloquy
- GMS 7192: Journal Colloquy

Advanced Concentration in Health Outcomes and Policy

The University of Florida's Master of Science in Medical Sciences, with a concentration in Health Outcomes and Policy, is a specialized degree designed to put its graduates at the forefront of innovative research to develop, implement, and evaluate clinical and community-based programs that promote health and health outcomes. Throughout the curriculum, special emphasis is placed on health disparities and vulnerable populations. In addition to traditional graduate students, our program is available to medical students, post-doctoral researchers, fellows, residents, Ph.D. students, and junior faculty.

We also offer a 16-credit graduate certificate designed to complement other concurrent courses of study and to provide continuing education opportunities for faculty. The certificate can be completed in one year on a part-time basis.

Advanced Concentration in Health Outcomes and Policy Courses

- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6802: Examining Health Outcomes for Chronic Diseases in Clinical and Community-based Research
- GMS 6803: Data Management for Clinical Research
- GMS 6804: Medical Informatics
- GMS 6811: Grant Writing Skills for Clinical Research
- GMS 6812: Cancer Health Outcomes Assessment
- GMS 6816: Pediatric Child Health Outcomes Assessment for Clinical and Community-Based Research
- GMS 6821: Measuring and Analyzing Health Outcomes I
- GMS 6822: Measuring and Analyzing Health Outcomes II
- GMS 6826: Advanced Design and Methodology for Case-Control Studies in Clinical Research
- GMS 6829: Longitudinal Research Design
- GMS 6830: Health Outcomes Research and Policy Development
- GMS 6832: Economic Methods for Evaluating Value in Health
- GMS 6833: Health Care Policy and Vulnerable Populations
- GMS 6834: Health Policy and Formulation of Payment Mechanisms for Health Care
- GMS 6835: Health Policy Issues in Children's Health
- GMS 6842: Translational Research Methods
- GMS 6844: Experimental and Quasi-Experimental Research Designs for Community Settings
- GMS 6846: Meta-Analysis in Clinical, Health Services Research and Public Health
- GMS 6851: Health Outcomes Research
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6853: Applied Topics in Dissemination and Implementation Science
- GMS 6854: Applied Topics in Clinical Effectiveness Research
- GMS 6881: Special Studies in Epidemiology and Health Policy Research
- GMS 6882: Directed Readings in Epidemiology and Health Policy
- GMS 6883: Practicum Experience in Epidemiology and Health Policy
- GMS 6884: Research in Epidemiology and Health Policy
- GMS 6885: Research Designs in Health Outcomes and Policy
- GMS 6893: Clinical and Translational Science Seminar Series
- GMS 6896: Health Outcomes and Policy Seminar

Advanced Concentration in Immunology and Microbiology

Directors: R. C. Condit and C. E. Mathews

The concentration in immunology and microbiology offers graduate training in cellular and molecular immunology (including immunopathology, immunogenetics, and autoimmunity) and in microbiology (including virology, bacteriology, microbial genetics, and microbial pathogenesis). The courses listed are taught in a 5-week modular format.

Advanced Concentration in Immunology and Microbiology Courses

- VME 6505: Autoimmunity
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6193: Research Conference in Oral Biology
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6921: Immunology/Microbiology Journal Colloquy
- GMS 7192: Journal Colloquy
- VME 6934: Topics in Veterinary Medical Sciences

Advanced Concentration in Molecular Cell Biology

Director: Alexander Ishov

Co-Director: Maria Zajac-Kaye

The advanced concentration in molecular cell biology (MCB) prepares investigators for careers in biomedical research in academic or industrial settings. This multidisciplinary specialization has more than 50 participating faculty members and offers an extraordinary range of opportunities for advanced study of life at the molecular and cellular levels. The Graduate Faculty share common interests in the molecular interactions that account for functionally integrated subcellular, cellular, and tissue organization found in living organisms. The model systems in use range from yeast and cellular lime molds through *Drosophila* to birds and mammals. These systems are manipulated and analyzed using a wide range of powerful molecular, genetic, protein chemical, immunological, pharmacological, nuclear magnetic resonance (NMR), and microscopic imaging strategies. Students who select MCB take advanced course work and initiate independent research during the second year. This approach provides broad-based vision early in the program and the appropriate degree of specialization later on.

Advanced Concentration in Molecular Cell Biology Courses

- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6013: Developmental Genetics
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6381: Special Topics in Pathology
- GMS 6417: Integrative Aging Physiology
- GMS 6421: Cell Biology
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6644: Apoptosis
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6691: Special Topics in Cell Biology and Anatomy
- GMS 6692: Research Conference in Anatomy and Cell Biology

Advanced Concentration in Neuroscience

Directors: W. J. Streit and J. L. Bizon

The Graduate Faculty associated with the neuroscience advanced concentration have expertise in neuroanatomy, molecular and cellular neurobiology, neurodevelopment and aging, neurotransmitter chemistry and pharmacology, neuroendocrinology and neuroimmunology, cellular and molecular neuro-oncology, cellular and membrane neurophysiology, somatosensory and motor systems, transplantation neurobiology, injury and repair of the CNS, and neurobehavioral sciences. Study in marine vertebrate and invertebrate neurobiology is available through Graduate Faculty at the Whitney Laboratory.

Advanced Concentration in Neuroscience Courses

- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6023: Principles of Neuroscience III – Molecular Neuropharmacology and its Clinical Application
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6705: Functional Human Neuroanatomy
- GMS 6709: Current Topics in Vision
- GMS 6711: Neurobiology of Pain
- GMS 6750: Molecular Pathobiology of Neural Disease
- GMS 6760: Comparative Biology of Cell Signaling
- GMS 6791: Visual Neuroscience Journal Club
- GMS 6792: Neuroscience Graduate Research Seminar
- GMS 7794: Neuroscience Seminar
- GMS 7795: Special Topics in Neuroscience

Advanced Concentration in Oral Biology

Chair: R. A. Burne

Graduate Coordinator: J. Brady

The Department of Oral Biology, a unit of the College of Dentistry, offers graduate study leading to the degree of Doctor of Philosophy as part of the College of Medicine's Interdisciplinary Program (IDP) in Biomedical Sciences. The work is designed to provide the degree candidate with a strong background in basic biological principles relevant to the various subspecialties of oral biology, as well as specialized training in various aspects of the diseases and disorders of the oral cavity.

Areas of emphasis include application of microbiological, immunological, cellular, and molecular biological concepts and technologies to answer questions about host-pathogen interactions in oral disease; vaccine development; oral microbial physiology; oral bacterial biofilm biology; saliva and salivary gland biology; microbial antibiotic resistance; and autoimmune diseases. More information is available at <http://dental.ufl.edu/departments/oral-biology/>.

Prerequisites for admission in addition to those of the Graduate School include a broad base of courses in mathematics, physics, organic and analytic chemistry, advanced biology, biochemistry, molecular biology, and statistical methods. Specific requirements can be obtained from the Graduate Coordinator or the IDP office.

Oral Biology Departmental Courses

- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6176: Biology of Tooth Supporting Structures I
- GMS 6177: Biology of Tooth Supporting Structures II
- DEN 6680: Principles and Craniofacial Biology and Emerging Therapies
- DEN 6681: Craniofacial Pathobiology
- GMS 7179: Journal Colloquy

Advanced Concentration in Physiology and Pharmacology

Directors: J. K. Harrison and H. Kasahara

The Graduate Faculty associated with this advanced concentration have expertise in a variety of disciplines, including molecular and cellular biology, pharmacology, physiology, neuroscience, and biochemistry. These faculty bring together unique strengths to provide the students with diverse training. Students may train in laboratories involved in cardiovascular, neuro, endocrine, and developmental physiology; pharmacology; and toxicology. Students conduct research at the molecular, cellular, and integrative levels. Many of the faculty are involved in multidisciplinary, collaborative research efforts that aim to understand basic physiological mechanisms and pathophysiological processes (e.g., cardiovascular, neurodegenerative, and neoplastic diseases).

Advanced Concentration in Physiology and Pharmacology Courses

- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology

- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

Core Courses--IDP

- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6090: Research in Medical Sciences
- GMS 6901: Seminar in Biology of Disease
- GMS 7003: Responsible Conduct of Biomedical Research
- GMS 7593: Topics in Pharmacology and Toxicology

General and Advanced Courses

- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6090: Research in Medical Sciences
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6872: Science and Ethics of in Vitro Fertilization
- GMS 6905: Independent Studies in Medical Sciences
- GMS 6910: Supervised Research
- GMS 6931: Ethical and Policy Issues in Clinical Research
- GMS 6940: Supervised Teaching
- GMS 6971: Research for Master's Thesis
- GMS 7001: Fundamentals of Biomedical Science Education
- GMS 7002: Practicum in Biomedical Science Education
- GMS 7003: Responsible Conduct of Biomedical Research
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation

Other Interdisciplinary Doctoral Concentrations Offered

The interdisciplinary emphasis on vision sciences is also discussed in the Interdisciplinary Graduate Studies section. The program director is Dr. W. Clay Smith, P.O. Box 100284 College of Medicine, Gainesville, FL 32610 or (352) 392-0476.

Interdisciplinary study in toxicology is coordinated by the Center for Environmental and Human Toxicology and is concerned with the effects of chemicals on human and animal health. Additional information is given in the Interdisciplinary Graduate Studies section of this catalog or may be obtained from the codirector, Dr. Colin Summers, P.O. Box 100215, College of Medicine, Gainesville, FL 32610 or (352) 392-0740.

Degrees Offered with a Major in Medical Sciences

Doctor of Philosophy

without a concentration

concentration in Biochemistry and Molecular Biology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Cancer Biology

concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Genetics

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Health Outcomes and Policy

optional second concentration in Clinical and Translational Science

concentration in Imaging Science and Technology

concentration in Immunology and Microbiology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Molecular Cell Biology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Neuroscience

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Physiology and Pharmacology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Toxicology

Master of Science

without a concentration

concentration in Clinical and Translational Science

concentration in Health Outcomes and Policy

concentration in Translational Biotechnology

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
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- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Biochemistry and Molecular Biology Department

Chair: James B. Flanagan.

Graduate Coordinator: Kevin Brown

Complete faculty listing by department: [Follow this link.](#)

Biochemistry and Molecular Biology Department faculty mentor Ph.D. students in the College of Medicine interdisciplinary program (IDP) in medical sciences. Students interested in pursuing a doctoral degree can view specific features of the biochemistry and molecular biology concentration at <http://biochem.med.ufl.edu/> and <http://idp.med.ufl.edu>. For admission information, visit the IDP website. Department faculty also mentor Ph.D. students in other college programs and participate actively in the research and teaching functions of various centers such as the Center for Epigenetics and the Center for Structural Biology. The Department offers a wide variety of courses for graduate students studying in the life sciences. The research expertise of the faculty spans the areas from cell biology, metabolism, and molecular biology to physical biochemistry/structural biology. Current research interests include viral protease inhibitors, viral RNA replication, bioenergetics and proton translocation, X-chromosome structure and function, cytoskeletal assembly and dynamics, enzyme mechanism and control, chromatin structure, gene expression and regulation, mitochondrial biogenesis and evolution, the genetics of inherited disease, nutrient membrane transporters, protein site-directed mutagenesis, ribosome structure and function, signal transduction, structural biology and dynamics of macromolecules, protein-nucleic acid interactions, transgenic animal models, and virus crystal structure. Prospective graduate students should have adequate training in chemistry and biology. Minor deficiencies may be made up immediately after entering graduate school. Previous undergraduate experience in a research laboratory is highly recommended. Doctoral students are required to take a core IDP course in fall term of their first year; and beginning in spring term, students take advanced classes in areas of interest. Specific advanced-level courses may be recommended by the student's supervisory chair and committee. The following courses are open to all graduate students and advanced undergraduates. Additional courses are listed in the Advanced Concentration in Biochemistry and Molecular Biology section under Medical Sciences.

Other

Biochemistry and Molecular Biology

College

[College of Medicine](#)

Department/School

[Biochemistry and Molecular Biology Department](#)

Degrees Offered with a Major in Biochemistry and Molecular Biology

Master of Science

Courses

- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6040: Research Discussion in Biochemistry and Molecular Biology
- BCH 6107: Biophysical Techniques in Proteomics and Protein Science
- BCH 6206: Advanced Metabolism
- BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control
- BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism
- BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems
- BCH 6744: Molecular Structure Determination by X-ray Crystallography
- BCH 6744L: Molecular Structure Determination by X-Ray Crystallography Laboratory
- BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy
- BCH 6745L: Molecular Structure and Dynamics by NMR Spectroscopy Laboratory

- BCH 6746: Structural Biology: Macromolecular Structure Determination
- BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics
- BCH 6749C: Numerical Methods in Structural Biology
- BCH 6876: Recent Advances in Membrane Biology
- BCH 6875: Crystallography and Cryo-Electron Microscopy
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- BCH 6905: Independent Studies in Biochemistry and Molecular Biology
- BCH 6910: Supervised Research
- BCH 6936: Biochemistry Seminar
- BCH 6971: Research for Master's Thesis
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- BCH 7414: Advanced Chromatin Structure
- BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics
- BCH 7979: Advanced Research
- BCH 7980: BioChem Doctoral Research

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- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
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Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: P. Qiu

Graduate Coordinator: Babette Brumbach

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/curriculum-overview/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/ms-curriculum-overview/>.

Other

Biostatistics (Medicine)

College

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Department

[Biostatistics Department](#)

Degrees

Doctor of Philosophy

Master of Science

Biostatistics Departmental Courses

- GMS 6818: Design and Conduct Clinical Trials I
- GMS 6819: Design and Conduct Clinical Trials II
- GMS 6827: Advanced Clinical Trial Methods
- GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6020: Clinical Trial Methods
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6050C: Biostatistical Methods I
- PHC 6051: Biostatistical Methods II
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
- PHC 6080: SAS for Public Health - Data
- PHC 6081: SAS for Public Health - Analysis
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6937: Special Topics in Public Health
- PHC 6946: Public Health Internship
- PHC 7013: Bias in Observational Research
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7925: Biostatistics Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- STA5223: Applied Sample Survey Methods
- STA5325: Fundamentals of Probability
- STA5328: Fundamentals of Statistical Theory
- STA5503: Categorical Data Methods
- STA5701: Applied Multivariate Methods
- STA5715: Applied Survival Analysis
- STA6092: Applied Statistical Practice
- STA6166: Statistical Methods in Research I
- STA7249: Generalized Linear Models
- STA7346: Statistical Inference

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- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology

- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
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- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

Other

Epidemiology (Medicine)

College

[College of Medicine](#)

Department

[Epidemiology Department](#)

Epidemiology Program Information

The **Ph.D. in Epidemiology** program is in the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The program requires a minimum of 90 semester credits beyond the bachelor's degree. All students must complete a minimum of 9 credits in Epidemiology foundation course work, at least 36 credits of epidemiology core courses, 6 credits of statistics electives, 18 credits of epidemiology electives, 15 credits of general electives, and 12 credits of dissertation research. Students must also complete at least two mentored teaching experiences. All entering students who do not hold MPH or equivalent degrees are also required by the College of Public Health and Health Professions to complete an Introduction to Public Health course.

Students in the Ph.D. program in Epidemiology are admitted to work with a research mentor on that mentor's project, and that research mentor funds the student. Other funding sources are available such as the Graduate School and the Department.

The core course work is designed to incorporate competencies recommended in the report of the 2002 workshop on doctoral education in epidemiology from the American College of Epidemiology and the Association of Schools and Programs of Public Health, and criteria for applied epidemiology competencies. The overall outcomes expected of all graduates are as follows:

1. Apply epidemiological methods to address critical and/or emerging public health issues through the use of:
 - Appropriate epidemiological research designs
 - Advanced statistical analysis methods for health studies
 - Data structures and measurement methods for health research
 - Biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being
 - Depth of knowledge in an area of specialization
2. Assimilate the history, philosophy, and ethical principles of epidemiology into current research
3. Develop grant proposals and manage research projects
4. Write scientific papers for publication in peer-reviewed journals, and communicate research results to scientists, policy makers, and the public
5. Compete successfully for research and teaching positions in academic institutions, federal or state agencies, or private institutions.

Details of the Ph.D. in Epidemiology program and application information are available at our website: <http://epidemiology.phhp.ufl.edu/about/ph-d-in-epidemiology-2>.

The **Master of Science in Epidemiology** degree is offered by the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The 36 credit program prepares students for careers in the public health arena that are focused on the surveillance and prevention of illnesses among diverse populations around the world. Students are trained in the foundational aspects of epidemiology including person, place and time, risk and protective factors, and the social determinants of health. Areas of focus include: chronic disease, infectious disease, geriatric, environmental, psychiatric, social, cancer and maternal and child health epidemiology.

Graduates of the M.S. in Epidemiology program are trained to:

- Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to areas of interest,
- Choose appropriate measurement and analytic methods to study health and disease in a population,
- Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health.

The program consists of required coursework and the successful completion of a thesis. The thesis is required to demonstrate skill in independent inquiry and investigation, under the tutelage of a mentor. Students may complete the course in three semesters with 36 credits.

More program information, including specific course requirements and elective options, is described at the program website: <http://epidemiology.phhp.ufl.edu/about/masters-of-science-in-epidemiology/mse-curriculum-2>.

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Science

Epidemiology (PHHP/COM) Departmental Courses

- GMS 6820: Advanced Epidemiology Methods
- PHC 6008: Cardiovascular Epidemiology
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6034: Epidemic Investigation
- PHC 6070: Epidemiology of Aging
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7007: Cancer Epidemiology
- PHC 7038: Psychiatric Epidemiology
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7427: Ethics in Population Science
- PHC 7727: Grant Writing for Population Health Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7902: Epidemiology Supervised Research Writing Circle
- PHC 7910: International Field Epidemiology
- PHC 7916: National Field Epidemiology
- PHC 7934: Seminar I: Epidemiology Past, Present, and Future
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
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- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
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- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences

- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
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- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
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- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
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- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics

- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Health Outcomes and Policy Department

[College of Medicine](#)

Chair: Betsy Shenkman

Graduate Coordinator: Jill Hemdon

Complete faculty listing by department: [Follow this link.](#)

Students can pursue either a Master of Science degree or a Graduate Certificate.

There is increasing emphasis on assessing health outcomes throughout the lifespan in a variety of health care and community settings. Nationally, the National Institute of Health and other federal and state agencies focus on the development of evidence-based programs to promote health, improve health care delivery, and enhance health outcomes.

Outcomes research generates evidence that informs health care program design in clinical and community settings, the promotion of effective clinical and community interventions, quality of care, cost-effective and clinically appropriate choices for patients in allocation of health care resources (clinical effectiveness), and incorporation of best practice models into health-related programs and policies. Outcomes research also provides mechanisms to understand how to translate research into practice and policy, how to improve the quality and efficiency of health programs, and how to achieve equitable and appropriate delivery of health programs and clinical care, particularly for underserved and vulnerable populations.

Our graduate programs are designed to train professionals in the health care and health research fields about the science that supports the development and evaluation of evidence-based clinical and community-based programs focused on improving health outcomes. Further, our programs emphasize methods for translating research into practice and policy. The unique combination of courses offered through these graduate programs will give trainees the tools needed to examine health outcomes and policies in a variety of settings across different age spans and to examine the individual, social, health system, and health policy factors that influence health outcomes.

In addition to traditional graduate students, both programs are available to medical students, post-doctoral students, fellows, residents, Ph.D. students, and junior faculty.

Molecular Genetics and Microbiology Department

Chair: H. V. Baker.

Graduate Coordinator: A. S. Levin.

Complete faculty listing by department: [Follow this link.](#)

The Graduate Faculty of the Department of Molecular Genetics and Microbiology participate in the interdisciplinary program (IDP) in medical sciences, leading to the Doctor of Philosophy degree, with specialization in one of the six advanced concentration areas of the IDP (see *Medical Sciences*). Departmental areas of research associated with the IDP focus on topical problems in molecular genetics, viral genetics, and viral and bacterial pathogenesis. Faculty in the Department of Molecular Genetics and Microbiology also participate in the M.S. programs (see *Medical Sciences*). In addition to courses associated with the IDP, the Department of Molecular Genetics and Microbiology maintains the courses listed below.

Biotechnology: This Master of Science program is for students seeking careers in the biomedical industry as research or managerial associates; students seeking careers as teachers or educators at any level, but primarily high school or junior college; or students seeking an in-depth understanding of modern biology and scientific research as an end in itself or in preparation for further graduate study. The foundation of the M.S. program is a basic understanding of molecular and cell biology and the performance of a high-quality research project, culminating in a thesis, under the direction of a skilled mentor, with supervision by a committee composed of members of the Graduate Faculty. Specialization may be in any of the fields of research being pursued at the College of Medicine including but not limited to molecular genetics, gene therapy, bacterial or viral pathogenesis, protein structure, toxicology, mammalian genetics, wound healing, and congenital eye diseases.

For more information contact the Master's Program Coordinator, Molecular Genetics and Microbiology, P.O. Box 100266, College of Medicine, Gainesville, FL 32610, Telephone (352)392-3314.

Other

Molecular Genetics and Microbiology

College

[College of Medicine](#)

Department/School

[Molecular Genetics and Microbiology Department](#)

Courses

- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6169: Antimicrobial Strategies
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6251: Molecular Therapy I – Vectors and Molecular Mechanisms
- GMS 6252: Molecular Therapy II – Disease Targets and Applications
- GMS 6253: Molecular Therapy III – Immunology of Gene Transfer
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6338: Recent Advances in Cancer Metastasis
- GMS 6506: Biologic Drug Development
- GMS 6920: Genetics Journal Colloquy
- GMS 6921: Immunology/Microbiology Journal Colloquy
- GMS 6943: Master's Translational Biotechnology Internship
- GMS 7093: Introduction to Clinical and Translational Research
- GMS 7191: Research Conference
- GMS 7192: Journal Colloquy
- GMS 7194: Biotechnology Seminar
- PCB 5235L: Experiments in Immunology

Degrees

Doctor of Philosophy - Mammalian Genetics

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
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- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II

- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
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- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
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- GMS 6876: Law & Ethics of Aging
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- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
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- GMS 6607C: Musculoskeletal Systems
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- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Departments and Programs within the College of Pharmacy

College of Pharmacy

Dean: J. Johnson

Complete faculty listings: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy and the Master of Science in Pharmacy degrees in the pharmaceutical sciences, with concentrations in medicinal chemistry, pharmacodynamics, pharmaceutical outcomes and policy, and pharmacy which includes pharmaceuticals. There are two additional concentrations in the Master of Science in Pharmacy program in pharmaceutical sciences: forensic drug chemistry, and forensic serology and DNA. Both offered in a distance-learning, nonthesis format. Complete descriptions of the minimum requirements for the M.S.P. and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

The Graduate Faculty and courses offered are listed under department headings in this catalog. The courses listed below consist of seminar, supervised teaching and research, and research for thesis or doctoral dissertation. These courses are offered in each of the departments.

Students who wish to pursue graduate studies in the College of Pharmacy must have an undergraduate degree in pharmacy, chemistry, biology, or related sciences.

Satisfactory completion of a thesis or dissertation based on research is a requirement for a graduate degree in the pharmaceutical sciences.

Inquiries regarding applications and general information about the graduate programs are processed through the

Office of Research and Graduate Studies,
College of Pharmacy,
P.O. Box 100484,
Health Science Center.

For more information, please see our website: <http://pharmacy.ufl.edu>.

[Departments and Programs within the College of Pharmacy](#)

[College of Pharmacy Courses](#)

Medicinal Chemistry Department

[College of Pharmacy](#)

Chair: M. O. James.

Graduate Coordinator: H. Luesch

Complete faculty listing by department: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy degree in pharmaceutical sciences with a concentration in medicinal chemistry. Medicinal chemistry is a unique blend of the physical and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active research include organic synthesis of medicinal agents, metal chelate design, prodrugs and topical drug delivery, drug metabolism, molecular toxicology, molecular biology, combinatorial chemistry, neurochemistry, analytical chemistry, molecular modeling, natural products, and drug discovery.

The applicant should have an undergraduate degree in pharmacy, chemistry, biology, or premedical sciences. A background in calculus and physical and organic chemistry is required. In addition to graduate medicinal chemistry courses in the College of Pharmacy, graduate courses in chemistry and biochemistry are required for the program.

The College also offers the Master of Science in Pharmacy degree in pharmaceutical sciences (nonthesis option) with concentrations in both forensic drug chemistry and forensic serology and DNA in a distance learning format. Minimum requirements for the M.S.P. and Ph.D. degrees are described in the *General Information* section of this catalog.

The Department participates in the interdisciplinary concentration in toxicology. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Other

Pharmaceutical Sciences (Medicinal Chemistry)

College

[College of Pharmacy](#)

Department/School

[Medicinal Chemistry Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Medicinal Chemistry

optional second concentration in Clinical and Translational Science

concentration in Toxicology

Master of Science in Pharmacy

concentration in Pharmaceutical Chemistry

concentration in Medicinal Chemistry

concentration in Forensic Serology and DNA

concentration in Forensic Science

concentration in Forensic Drug Chemistry

concentration in Clinical Toxicology

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology 1
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I

- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology

- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmaceutics Department

Chair: H. C. Derendorf.

Graduate Coordinator: A. Palmieri III.

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmaceutics offers the Doctor of Philosophy in pharmaceutical sciences. Pharmaceutics is the scientific endeavor concerned with the design, formulation, evaluation, and use of drug delivery systems. A foundation in physical chemistry, chemistry, mathematics, and in the life sciences, is necessary. Its domain extends from studies of the physiochemical properties of drugs and related molecules to investigations of the mechanisms of physiological processes affecting drug delivery and therapeutic effectiveness. The Department's general focus involves studying the design and evaluation of traditional and novel dosage forms for delivering drug molecules and macromolecules. The design involves physical chemical studies and development of analytical techniques involving spectroscopy and chromatography. Evaluation includes development of sensitive analytical techniques for the drug in biological fluids and subsequent biopharmaceutical and clinical pharmacokinetic studies.

Other

Pharmaceutical Sciences (Pharmaceutics)

College

[College of Pharmacy](#)

Department/School

[Pharmaceutics Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Pharmacy

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

without a concentration

concentration in Pharmacy

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar

- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmacodynamics Department

Chair: M. Keller-Wood.

Interim Graduate Coordinator: Joanna Peris

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see *Interdisciplinary Graduate Studies* in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

Other

Pharmaceutical Sciences (Pharmacodynamics)

College

[College of Pharmacy](#)

Department/School

[Pharmacodynamics Department](#)

Pharmacodynamics Programs

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see *Interdisciplinary Graduate Studies* in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Pharmacodynamics

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

concentration in Pharmacodynamics

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems

- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmaceutical Outcomes and Policy Department

Chair: R. Segal

Graduate Coordinator: A. Winterstein

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree. Complete descriptions of the requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog

Other

Pharmaceutical Sciences (Pharmaceutical Outcomes and Policy)

College

[College of Pharmacy](#)

Department/School

[Pharmaceutical Outcomes and Policy Department](#)

Pharmaceutical Outcomes and Policy Program Information

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree.

Research in the Department emphasizes the epidemiological, socio-behavioral, administrative, regulatory, and economic aspects of drug therapy and pharmaceutical services, including assessment of safety, effectiveness, efficiency and quality aspects of patient-oriented pharmaceutical services and medication use.

The department offers both a research-oriented residential M.S.P. and Ph.D. degree programs as well as an online M.S.P. program. For the research oriented degree programs, graduate studies include core curricula and four specializations in patient safety and program evaluation, pharmacoconomics, pharmacoepidemiology and social-behavioral research in medication use. Electives and required courses draw from the resources of the entire University. Graduates are prepared for leadership positions in academia, public service, pharmaceutical industry, and health service industry with a focus on the evaluation of drugs and related services.

The online non-thesis M.S.P. program is designed for working professionals, and focuses on pharmaceutical regulation and outcomes. Prior pharmacy experience/knowledge is not required and the program is available to persons located in the United States only. Coursework is delivered in both asynchronous and live, synchronous sessions. Students may choose among six specialty tracks including Pharmacy Regulation & Policy, Applied Pharmacoconomics, Drug Regulatory Affairs, Clinical Research Regulation in Pharmacy, Patient Safety & Medication Risk Management, and Institutional Pharmacy Leadership.

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Pharmaceutical Outcomes and Policy

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

concentration in Medication Therapy Management

concentration in Pharmaceutical Outcomes and Policy

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology 1
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmacotherapy and Translational Research Department

For a full list of faculty, please [follow this link](#).

Description to be added

Other

Pharmaceutical Sciences (Pharmacotherapy and Translational Research)

Description to be added

College

[College of Pharmacy](#)

Department/School

[Pharmacotherapy and Translational Research Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Clinical Pharmaceutical Sciences

Master of Science in Pharmacy

concentration in Clinical Pharmacy

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
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- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
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- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
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- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
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- PHA6521C: Research Techniques in Pharmacodynamics

- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

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- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

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- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
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- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Departments and Programs within the College of Public Health and Health Professions

College of Public Health and Health Professions

Dean: Michael G. Perri

Executive Associate Dean: Stephanie L. Hanson

Complete faculty listings: [Follow this link.](#)

The University of Florida College of Public Health and Health Professions has established a new educational model that focuses on the integration of public health problem-solving and individual patient care. The college's mission is to preserve, promote and improve the health and well-being of populations, communities and individuals. To fulfill this mission, we foster collaborations among public health and the health professions in education, research and service.

For more information, please see our website: <http://phhp.ufl.edu>

[Departments and Programs within the College of Public Health and Health Professions](#)

[College of Public Health and Health Professions Courses](#)

Other

Public Health (M.P.H.)

College

[College of Public Health and Health Professions](#)

Master of Public Health Program Information

Director and Graduate Coordinator: Sarah L. McKune

Complete faculty listing: [Follow this link.](#)

The College of Public Health and Health Professions offers the Master of Public Health degree program through five departments in the college: [Behavioral Science and Community Health](#), [Biostatistics](#), [Epidemiology](#), [Environmental and Global Health](#), and [Health Services Research, Management, and Policy Department](#). This non-thesis program is designed to prepare students to become effective public health practitioners, scientists, and educators.

Students select one of six concentration areas:

- Biostatistics
- Environmental health

- Epidemiology
- Public health management and policy
- Public health practice
- Social and behavioral sciences

Both a 48-credit program for students without terminal health science degrees and a 42-credit program for students with terminal degrees are offered. A combined bachelor's/master of public health program is available, as well as a 15-credit college certificate program. Students interested in collaborative programs may pursue joint M.P.H. and D.V.M., M.D., J.D., Pharm.D., D.P.T., or DMD degrees, or concurrent master's and Ph.D programs. The MPH degree program and the Public Health certificate are available on campus and online. For program descriptions and information on applying, visit the website: www.mph.ufl.edu.

48-credit Master of Public Health: Students who do not hold a terminal degree in a health science discipline are eligible to apply for the 48-credit program. The program provides comprehensive coverage of core public health content and allows selection of a concentration. Students must complete 16 credits of core public health course work, 15-21 credits of concentration core courses, up to 12 credits of elective courses, and 5-8 credits of internship. The course work representing these requirements is described below.

42-credit accelerated Master of Public Health: Students who hold a terminal degree (usually a doctoral degree) in a health science discipline may be eligible for the 42-credit accelerated program. This program requires completion of 16 credits of core public health course work, 21 credits of concentration and elective course work, and a 5-credit internship.

Combined degree program: The College offers a combined degree program to allow qualified undergraduates to earn both a bachelor's degree and the Master of Public Health degree efficiently. Seniors with any undergraduate major are eligible for the combined degree program as long as they have an undergraduate GPA of at least 3.2 and competitive scores on the verbal and quantitative portions of the GRE, and their career interests match the M.P.H. program. Students accepted into the combined degree program complete 15 credits of public health course work while still undergraduates, leaving only 33 credits after admission to graduate school. Students must achieve a B or better in public health courses taken as an undergraduate and be accepted to graduate school to complete the program.

Core Courses: All M.P.H. students take five public health core courses. The core courses in environmental health, epidemiology, public health management and policy, and social and behavioral sciences are taken by all students. The core biostatistics course varies across concentration areas. Students in the biostatistics, environmental health, and epidemiology concentrations must take [PHC 6052: Introduction to Biostatistical Methods](#). All other M.P.H. students must take [PHC 6050: Statistical Methods for Health Sciences Research I](#). In addition, all students must take a 1-credit seminar in contemporary public health issues and 5 to 8 credits of [PHC 6946: Public Health Internship](#).

Internship, major paper, and oral presentation: Each student completes an internship, which provides an opportunity to apply knowledge acquired in the classroom to a real public health problem in a practice setting. The internship is usually completed in the student's final term in the program. Students may engage in many activities during an internship, but each student must have one special project which serves as the basis for a major paper and an oral presentation. The written and oral presentations represent the culmination of the academic experience in the M.P.H. program. Presentations, which are scheduled on Public Health Day near the end of each semester, provide each student with an opportunity to organize and present the details of the special project to faculty, students, and invited guests. Students are expected to display their understanding of their projects in the larger context of public health as a cross-disciplinary field, and in relation to the competencies expected of all M.P.H. graduates. Three faculty members, including the supervisory committee chair, attend each presentation and are responsible for assessing whether the student has successfully demonstrated a broad knowledge of the field of public health and depth in his or her concentration area.

Degrees Offered with a Major of Public Health

Master of Public Health

Master of Public Health - Biostatistics

Master of Public Health - Environmental Health

Master of Public Health - Epidemiology

Master of Public Health - Health Management and Policy

Master of Public Health - Public Health Practice

Master of Public Health - Social and Behavioral Sciences

Public Health Courses

- HMG 6747: Marketing in Hospitality/Tourism
- HSA 6114: U.S. Health Care System
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6010: Data Management and Statistical Computing for Epidemiology
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6370: Public Health Biology
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6716: Survey Research Methods
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 6905: Independent Study
- PHC 6913: Biostatistics Project
- PHC 6930: Integrated Public Health Seminar
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7980: Research for Doctoral Dissertation
- STA 6177: Applied Survival Analysis
- STA 6208: Basic Design and Analysis of Experiments

Statistics Courses

Master of Public Health with a Concentration in Biostatistics

The contribution of biostatisticians is far reaching and includes both core public health research and consultation with other health professionals. The biostatistics concentration is designed primarily for students with a previous graduate degree (particularly in the health sciences) who want to obtain a solid background in quantitative and analytical methods for public health research. The course work exposes students to methodology typically used to analyze different types of public health data and gives them opportunities to apply these methodologies themselves.

Graduates of the M.P.H. program with a concentration in biostatistics return to their careers with an improved understanding of quantitative methods for public health research. This increased knowledge will facilitate their own research programs and will enhance their ability to critically read the literature in their field. The biostatistics concentration requires completion of 6 concentration core courses: PHC 6053 Regression Methods for the Health and Life Sciences, PHC 6000 Epidemiology Research Methods I, PHC 6080 SAS for Public Health Data, PHC 6081 SAS for Public Health Analysis, and PHC 6055 Biostatistical Computing Using R. Remaining courses include the public health internship (PHC 6946) and electives in statistics and public health. Visit the biostatistics concentration website for the most up-to-date information about course options: <http://mph.ufl.edu/programs/master-of-public-health/biostatistics>.

See the department Biostatistics website for information about other programs offered by the department: <http://biostat.ufl.edu/>.

Master of Public Health with a Concentration in Environmental Health

Professionals trained in environmental health study the impact of our surroundings on our health. They understand how environmental risk factors can cause diseases like asthma, cancer, and food poisoning. Environmental health professionals make up approximately half of public health personnel and the field accounts for about half of public health expenditures. Students interested in environmental health typically have a background in biological or physical sciences, engineering, nursing, medicine, and veterinary medicine. Prior experience in chemistry, biology, statistics, and Microsoft Excel software is desirable. Please note the prerequisites for Environmental Health courses and speak with the instructor if you have not successfully completed the prerequisites. The following courses are required for all students pursuing the environmental health concentration: VME 6602, VME 6607, PHC 6702, and PHC 6316. Students may also choose from elective course work listed on the department website below. Environmental health students complete their programs with an internship (PHC 6946) and electives on a wide variety of environmental health and public health topics.

Visit the environmental health concentration website for the most up-to-date information about course options:

<http://mph.ufl.edu/programs/master-of-public-health/environmental-health>. And visit the Website of the Department of Environmental and Global Health for information about other academic programs and activities in the department: <http://egh.phhp.ufl.edu>.

Environmental Health Courses

- EES 5245: Water Quality Analysis

- ENV 5105: Foundations of Air Pollution
- FOS 5205: Current Issues in Food Safety and Sanitation
- PHC 6702: Exposure Measurement and Assessment
- SWS 5551: Soils, Water, and Public Health
- VME 6602: General Toxicology
- VME 6603: Advanced Toxicology
- VME 6605: Toxic Substances
- VME 6607: Human Health Risk Assessment

Master of Public Health with a Concentration in Epidemiology

Epidemiology focuses on the study of the distribution and determinants of health in populations and communities. It is the scientific foundation of public health research that seeks to reduce risk factors and improve health. The discipline also contributes to public health practice and policy, and research in other health-related fields such as medicine and pharmacy. This concentration area is designed to train professionals to apply the principles and methods of epidemiological investigation in a broad range of settings. The required concentration core courses in epidemiology are PHC 6000, PHC 6002, PHC 6003, PHC 6011, and PHC 6053. Epidemiology concentration students complete their programs with an internship (PHC 6946) and electives in epidemiology and public health.

Additional detail and options for epidemiology elective course work is at the website: <http://mph.ufl.edu/programs/master-of-public-health/epidemiology>. Please also visit the website of the Department of Epidemiology for up-to-date information about other epidemiology programs and activities: <http://epidemiology.phhp.ufl.edu>.

Epidemiology Courses

- PHC 6000: Epidemiology Methods I
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6011: Epidemiology Methods II
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6405: Theoretical Foundations of Public Health
- PHC 6912: Special Project: Independent Research
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 6946: Public Health Internship

Master of Public Health with a Concentration in Public Health Management and Policy (PHMP)

This concentration focuses on the structure and administration of health organizations and the policies that impact health programs and reimbursement of health services. The concentration encompasses two of the major roles of leaders in public health. Essential skills for managing a health agency or organization include accounting, financial management, human resource management, strategic and program planning, operations research, economics, and monitoring outcome measures. Development, analysis, interpretation, and evaluation of government policies require analytical skills and social skills, as well as a deep understanding of politics.

The PHMP concentration requires six core courses: HSA 5174, HSA 6115, HSA 6152, PHC 6104, PHC 6421, and PHC 6103. In addition, students take two elective courses in one of three areas of specialization:

- Public health management
- Public policy
- Pharmaceutical use and policy.

The PHMP students complete their programs with an internship (PHC 6946) and public health elective courses.

Visit the public health management and policy concentration website for the most up-to-date information about course options:

<http://mph.ufl.edu/programs/onecampusprograms/concentrations-2/managementpolicy>.

The website of Department of Health Services Research, Management, and Policy provides additional information about activities and other academic programs in the department:

<http://hsmp.phhp.ufl.edu>.

Public Health Management and Policy Courses

- HSA 5174: Fundamentals of Health Care Finance
- HSA 6115: Introduction to Management of Health Services Organizations
- HSA 6152: Overview of U.S. Health Policy
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6421: Public Health Law and Ethics

Master of Public Health with a Concentration in Public Health Practice

This concentration provides the opportunity to develop breadth in public health by taking coursework in two, three, or four of the core public health concentrations. Such breadth is often required of professionals who assume positions of leadership in public health. It is available to students in joint and concurrent degree programs, medical and other health scientists, and working professionals. Public Health Practice is the only M.P.H. concentration available online.

The campus curriculum for this concentration follows the same model as the other concentrations. Students pursuing public health practice begin their programs with the 5 core courses required of all MPH students. Instead of a specified set of concentration core courses, however, these students may choose 2 or more courses from advanced course options in two to four of the other concentrations. Students complete their degree with a 5 to 8 credit internship. All students in this concentration must hold a prior health professional degree or be enrolled in a joint or concurrent graduate program. To be eligible for the accelerated option, applicants must hold a terminal degree in a health or health-related field.

The online Public Health Practice curriculum begins with the 5 core courses and then offers two or more courses in epidemiology, environmental health, public health management and policy and social and behavioral sciences. Students complete their degree with a 5 to 8 credit internship. Online students are not available to pursue the MPH on campus in Gainesville, either due to employment or geographic distance.

Master of Public Health with a Concentration in Social and Behavioral Sciences

The social and behavioral sciences concentration is based on the assumption that health and health behavior are influenced by multiple psychological, behavioral, social, and cultural factors. Central to addressing health problems and eliminating health disparities and inequalities, these factors must be understood and addressed using a framework that explores multiple levels (individual, interpersonal, organizational, community, and population) and the interactions among them. Through classroom instruction, research, and field practice, MPH students who concentrate in social and behavioral sciences explore the unique issues faced by diverse groups and populations and acquire skills to achieve social and behavioral change. Students in the social and behavioral sciences concentration are required to take five courses: PHC 6251 (Assessment and Surveillance in Public Health), PHC 6146 (Public Health Program Planning and Evaluation), PHC 6700 (Social and Behavioral Research Methods), PHC 6195 (Public Health Information for Diverse Populations), and PHC 6405 (Theoretical Foundations of Public Health). In addition, they may choose two courses from ten concentration electives (e.g., PHC 6762, PHC 6441). Social and behavioral science students complete their programs with an internship (PHC 6946) and elective courses in public health or related fields.

Visit the social and behavioral science concentration website for the most up-to-date information about course options: <http://mph.ufl.edu/programs/master-of-public-health/socialbehavioralsciences>.

The website of Department of Behavioral Science and Community Health provides additional information about activities and other academic programs in the department: <http://bsch.php.ufl.edu>.

Social and Behavioral Sciences Courses

- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6441: Health Disparities in the United States
- PHC 6700: Social and Behavioral Research Methods
- PHC 6762: International Public Health
- PHC 6937: Special Topics in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life

- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
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- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D.)

College

[College of Public Health and Health Professions](#)

Degrees Offered with a Major in Public Health

Doctor of Philosophy

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
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- PHC 6317: Risk Communication for Public Health Practice
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- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
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- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
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- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
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- RSD 7979: Advanced Research
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- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
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- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Rehabilitation Science

College

[College of Public Health and Health Professions](#)

Rehabilitation Science Program Information

Director: David D. Fuller

Graduate Coordinator: Ellen Esparolini

Admissions Coordinator: Amy Ladendorf

Complete faculty listing by department: [Follow this link.](#)

The interdisciplinary Ph.D. program in rehabilitation science is offered through the College of Public Health and Health Professions. It is designed to prepare rehabilitation scholars. Students are given the opportunity to develop skills in teaching, research, service leadership, and interdisciplinary teamwork. Students work closely with their faculty mentor within the broad categories of Movement Science, Disability Science, and Communication and Swallowing Science. On successful completion of the program, graduates typically take positions in research universities and research centers. Requirements for the Ph.D. degree are provided elsewhere in this catalog.

Admissions decisions are determined by an interdisciplinary admissions committee. The program is a minimum of 90 credit hours of study beyond the Bachelor's degree. The curriculum includes 25 graduate credits in core rehabilitation courses (rehabilitation science theory, research, and teaching) required of all students; 50 credits in specialty areas; and 15 credits of dissertation research. The 50 credits of specialty courses includes 18 credits from one (or a combination) of the three major emphases in rehabilitation mentioned above. The remaining 32 credit hours may be electives, or 30 credits may be transferred in from a master's degree program (with the approval of the supervisory committee. Specialty course work must be chosen by the student with supervisory committee input and approval.

For more information, please see our website: <http://rehabsci.phhp.ufl.edu>.

Degrees Offered with a Major in Rehabilitation Science

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Rehabilitation Sciences Courses

- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
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- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- SPA 5401: Speech Pathology Language Disorder
- SPA 6008: Medical Aspects of Speech-Language Pathology
- SPA 6117: Science of Singing
- SPA 6217: Vocal Health and Habilitation
- SPA 6311: Medical Audiology
- SPA 6312: Advanced Audiology and Neuro-Otology
- SPA 6340: Amplification I
- SPA 6341: Amplification II
- SPA 6342: Amplification III
- SPA 6436: Issues in Autism Spectrum Disorders
- SPA 6568: Clinical Evaluation in Medical Speech-Language Pathology
- SPA 6581: Special Clinical
- SPA 6830: Communication Disorders in Medically Complex Pediatric Populations
- SPA 7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions
- SPA 7306: Audiologic Assessment in a Medical Setting
- SPA 7391: Business and Professional Issues in Audiology
- SPA 7415: Neurolinguistics of Adult Language Disorders
- SPA 7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders
- SPA 7833: Audiology Research Project
- SPA 7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities
- SPA 7945: Graduate Practicum in Audiology
- SPA 7946: Clinical I: Practicum in Medical Speech and Language Pathology
- SPA 7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology
- SPA 7958: Clinical Externship

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics

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- PHC 7980: Research for Doctoral Dissertation
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- PHT 6127C: Control of Gait and Posture
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- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
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- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
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- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation

- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
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- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Behavioral Science and Community Health Department

Chair: B. Curbow

Complete faculty listing by department: [Follow this link.](#)

The Department of Behavioral Science & Community Health (BSCH) is one of nine academic departments housed in the School of Public Health and Health Professions at the University of Florida. This department offers a Doctor of Philosophy (PhD) degree (SBS track). For more information about the program, please visit the link below.

Other

Public Health (Ph.D. - Social and Behavioral Sciences)

College

[College of Public Health and Health Professions](#)

Department/School

[Behavioral Science and Community Health Department](#)

Behavioral Science and Community Health Program Information

Social & Behavioral Sciences

The PhD in Public Health -Social and Behavioral Sciences (SBS) Track is targeted to individuals who wish to develop advanced knowledge and skills in the social and behavioral sciences theories and methods used in public health. Training is designed for those who desire public health careers in research, academics, government, or related health organizations. A prior graduate degree in public health or a related field is strongly preferred.

The program is focused upon the assumption that health and health behavior are impacted by multiple psychological, behavioral, social, and cultural factors. Central to addressing health problems and eliminating health disparities and inequalities, these factors must be understood and addressed at multiple social-ecological levels (individual, interpersonal, organizational, community, and population).

PhD students who concentrate in social and behavioral sciences explore the unique issues faced by diverse groups and populations and acquire skills to achieve social and behavioral change.

Contact

Dr. Giselle Carnaby (nee Mann), Program Director

gmarnn@php.ufl.edu

Phone: 352-273-6745 ext. 36497; ext. 36164 (lab)

Office: HPNP 4172; DG-140 (lab)

For more information, please visit <http://sbs.php.ufl.edu/>

Degrees Offered with a Major in Public Health

Doctor of Philosophy

concentration in Social and Behavioral Sciences

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
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- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Interim Chair: Samuel Wu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals

- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

Other

Biostatistics (PHHP)

College

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Department

[Biostatistics Department](#)

Biostatistics Program

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

Degrees

Doctor of Philosophy

Master of Science

Biostatistics Departmental Courses

- GMS 6818: Design and Conduct Clinical Trials I
- GMS 6819: Design and Conduct Clinical Trials II
- GMS 6827: Advanced Clinical Trial Methods
- GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6020: Clinical Trial Methods
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6050C: Biostatistical Methods I
- PHC 6051: Biostatistical Methods II
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
- PHC 6080: SAS for Public Health - Data
- PHC 6081: SAS for Public Health - Analysis
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6937: Special Topics in Public Health
- PHC 6946: Public Health Internship
- PHC 7013: Bias in Observational Research
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7925: Biostatistics Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- STA5223: Applied Sample Survey Methods
- STA5325: Fundamentals of Probability
- STA5328: Fundamentals of Statistical Theory
- STA5503: Categorical Data Methods
- STA5701: Applied Multivariate Methods
- STA5715: Applied Survival Analysis
- STA6092: Applied Statistical Practice
- STA6166: Statistical Methods in Research I
- STA7249: Generalized Linear Models
- STA7346: Statistical Inference

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology

- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Clinical and Health Psychology Department

[College of Public Health and Health Professions](#)

Department Chair: William W. Latimer.

Graduate Coordinator: S.R. Bogs.

Complete faculty listing: [Follow this link.](#)

The Department of Clinical and Health Psychology is a unit of the College of Public Health and Health Professions. The department's programs are its doctoral clinical psychology studies leading to the Ph.D. degree in psychology; an American Psychological Association accredited doctoral internship program; and postdoctoral studies and research. Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

The clinical psychology doctoral curriculum adheres to the scientist-practitioner model of education and training. Program strengths include research, education, and professional training in health care psychology, with organized areas of concentration in clinical health psychology, clinical child/pediatric psychology, neuropsychology, neurorehabilitation and clinical neuroscience, and emotion neuroscience/psychopathology. Education and training experiences are also available in rural psychology. Interested students can apply for acceptance into the Public Health Program and obtain dual M.P.H./Ph.D. degrees.

Progress in the program is determined by departmental policies which are consistent with American Psychological Association accreditation standards. The curriculum has been continuously accredited by the American Psychological Association since 1953.

Admission to the Department is through appropriate application to the Department's admission committee. A bachelor's degree is generally adequate preparation for graduate admission. It should include undergraduate courses in both experimental psychology and statistics, along with at least three courses from the following psychology areas: developmental, learning, perception, personality, physiological, and social.

For more information, please see the program page below and our website: <http://chp.phhp.ufl.edu>.

Other

Psychology (Clinical and Health Psychology - PHHP)

College

[College of Public Health and Health Professions](#)

Department/School

[Clinical and Health Psychology Department](#)

Psychology (Clinical and Health Psychology) Program Information

The department of Clinical and Health Psychology is an academic and professional unit in the College of Public Health and Health Professions at the Health Science Center on the University of Florida campus in Gainesville. The doctoral program in clinical psychology has been accredited by the American Psychological Association since 1953 and adheres to the Scientist-Practitioner Model of education and training. The Clinical Psychology Doctoral program is unique in the country in that it is housed in an independent department of Clinical and Health Psychology in a major academic health science setting along with an APA accredited internship. These features foster program strengths in research, teaching and professional training in health care psychology.

To accommodate the broad range of career trajectories possible within Scientist-Practitioner education and training, the program offers a Scientist-Practitioner Emphasis and a Clinical Researcher Emphasis.

The **Scientist-Practitioner Emphasis** allows the student to obtain broad clinical, academic, and research training that readies them for careers anywhere along the science-practice continuum. The student obtains focused research mentorship in a faculty member's laboratory and obtains broad training in clinical assessment and intervention both in and outside of their designated area of concentration.

The **Clinical Researcher Emphasis** is designed to provide the interested student with more intensive mentor-based training for purposes of preparing for a research career. The Clinical Researcher Emphasis is designed for students who are clearly focused on a research career and therefore want an increased opportunity to perform mentored empirical work. This emphasis focuses on the acquisition of research skills, training in scientific methods and technologies to better understand behavior problems, psychopathology and psychological adjustment to illness and wellness, and to develop empirically validated assessment and treatment procedures. The primary goal of the Clinical Researcher emphasis is to train psychologists for academic settings and other employment venues in which research productivity and innovation is a major job expectancy. In comparison to the scientist-practitioner emphasis, more time is dedicated to research (less time is spent in supervised practicum with the general faculty), and advanced clinical training is focused on patient populations and methods in the student's area of research interest. The Clinical Researcher emphasis follows a "mentorship" model in which the faculty mentor is the student's overall guide and supervisor, and the student's primary research training is accomplished in his/her laboratory.

Students can elect the Clinical Researcher emphasis in the first or second year of study, based on their commitment to a clinical research career and the agreement of a faculty mentor. Students can apply for admission consideration to the Scientist-Practitioner emphasis, the Clinical Researcher emphasis, or both (see Application Procedures).

The Doctoral Program provides the student with training in the concepts, tools, roles, and functions of the clinical psychologist. The overall goals of the graduate program are to prepare the student to:

1. investigate meaningful, empirically testable questions in the quest for understanding a behavioral process, a patient's problem, or a professional issue;
2. function as a professional psychologist;
3. practice competently in the applied areas of psychological assessment/diagnosis, intervention/therapy, and consultation; and
4. contribute to the advancement of psychological knowledge through research or other creative scholarly activity.

Through a combination of general and specialized experiences in the classroom, laboratory, and clinic students develop knowledge and skills as scientist-practitioners. Attitudes are developed toward the practice of psychology and toward related professions which enable effective personal interaction and participation in the interdisciplinary approach to problems of research and practice. As students progress in the program, they develop professional identity through acceptance of increased responsibility for professional decisions, through the execution of significant research projects, and through their contributions to the understanding of psychological problems and processes.

For more information please see our website: <http://chp.phhp.ufl.edu>

Degrees

Doctor of Philosophy

concentration in Clinical and Health Psychology

optional second concentration in Clinical and Translational Science

concentration in Clinical and Translational Science

Master of Arts

Master of Science

Clinical and Health Psychology Departmental Courses

- CLP 5316: Health Psychology
- CLP 5426: Introduction to Neuropsychology
- CLP 6304: Psychological Foundations of Clinical Psychology I
- CLP 6307: Human Higher Cortical Functioning
- CLP 6308: Psychological Foundations of Clinical Psychology II
- CLP 6309: Psychological Foundations of Clinical Psychology III
- CLP 6344C: Lifespan Foundations of Behavioral Health and Illness I
- CLP 6345: Lifespan Foundations of Behavioral Health and Illness II
- CLP 6375: Introduction to Clinical Psychology
- CLP 6407: Psychological Treatment I
- CLP 6417: Psychological Treatment II
- CLP 6425: Seminar in Clinical Neuropsychology
- CLP 6430: Clinical Psychological Assessment
- CLP 6434C: Clinical Psychology Assessment I
- CLP 6435C: Clinical Psychology Assessment II
- CLP 6446C: Psychological Assessment of Children
- CLP 6447C: Psychological Assessment of Adults
- CLP 6476: Lifespan Psychopathology
- CLP 6497: Psychopathological Disturbances
- CLP 6527C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology I
- CLP 6528C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology II
- CLP 6529: Applied Multivariate Methods in Psychology
- CLP 6905: Individual Work
- CLP 6910: Supervised Research
- CLP 6940: Supervised Teaching
- CLP 6943: Core Practicum in Clinical Psychology
- CLP 6945: Advanced Practicum in Neuropsychology
- CLP 6946: Advanced Practicum in Applied Medical Psychology
- CLP 6947: Practicum in Intervention
- CLP 6948: Advanced Practicum in Clinical Child Psychology
- CLP 6971: Research for Master's Thesis
- CLP 7317: Advanced Health Psychology and Behavior Medicine
- CLP 7404C: Special Issues, Methods, and Techniques in Psychological Treatment
- CLP 7427C: Neuropsychological Assessment of Children
- CLP 7428C: Neuropsychological Assessment of Adults
- CLP 7934: Special Topics In Clinical Psychology
- CLP 7949: Internship
- CLP 7979: Advanced Research
- CLP 7980: Research for Doctoral Dissertation
- DEP 6216: Psychological Disturbances of Children
- GEY 6306: Interpersonal Communication Within the Aging Network
- GEY 7408: Psychotherapy with Older Adults

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/AIDS in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation

- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Environmental and Global Health Department

Chair: G. C. Gray

Graduate Studies Program Assistant: N. Burke

Faculty listing: [Follow this link](#)

The Department of Environmental and Global Health focuses upon environmental factors that impact human health. Department faculty, scientists, and students employ numerous disciplines in studying these environmental factors: virology, bacteriology, parasitology, entomology, toxicology, epidemiology, water sciences, veterinary health, environmental engineering, aerosol biology, wildlife health, etc. Research work often involves international travel and collaboration. A central theme for the department is the interdisciplinary thinking called [One Health](#) which reflects the collaborations necessary to tackle public health's most difficult problems. Faculty, students and staff often perform research in the laboratories in the [Emerging Pathogens Institute](#), the [Center for Environmental and Human Toxicology](#), or the [Aquatic Pathobiology Laboratory](#).

The Department of Environmental and Global Health offers graduate work leading to the degrees of Doctor of Philosophy, Master of Health Science, and Master of Public Health.

Other

Environmental and Global Health (M.H.S. - One Health)

College

[College of Public Health and Health Professions](#)

Department

[Environmental and Global Health Department](#)

Degrees Offered With a Major in Environmental and Global Health

Master of Health Science

concentration in One Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
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- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
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- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
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- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
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- PHC 6931: Seminars in Public Health
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- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
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- PHC 7752: Seminar in Instrument Development for Public Health

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- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
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- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D. - Environmental and Global Health)

College

[College of Public Health and Health Professions](#)

Department/School

[Environmental and Global Health](#)

Degrees Offered With a Major in Public Health

Doctor of Philosophy

concentration in Environmental Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health

- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
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- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
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- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
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- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
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- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D. - One Health)

College

[College of Public Health and Health Professions](#)

Environmental and Global Health Department

[Environmental and Global Health Department](#)

Degrees Offered With a Major in Public Health

Doctor of Philosophy

concentration in One Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
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- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
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- PHC 7980: Research for Doctoral Dissertation
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- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
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- RCS 6066: Rehabilitation Issues in Human Growth and Development
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- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
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- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.php.ufl.edu>.

Other

Epidemiology (PHHP)

College

[College of Public Health and Health Professions](#)

Department

[Epidemiology Department](#)

Epidemiology Program Information

The **Ph.D. in Epidemiology** program is in the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The program requires a minimum of 90 semester credits beyond the bachelor's degree. All students must complete a minimum of 9 credits in Epidemiology foundation course work, at least 36 credits of epidemiology core courses, 6 credits of statistics electives, 18 credits of epidemiology electives, 15 credits of general electives, and 12 credits of dissertation research. Students must also complete at least two mentored teaching experiences. All entering students who do not hold MPH or equivalent degrees are also required by the College of Public Health and Health Professions to complete an Introduction to Public Health course.

Students in the Ph.D. program in Epidemiology are admitted to work with a research mentor on that mentor's project, and that research mentor funds the student. Other funding sources are available such as the Graduate School and the Department.

The core course work is designed to incorporate competencies recommended in the report of the 2002 workshop on doctoral education in epidemiology from the American College of Epidemiology and the Association of Schools and Programs of Public Health, and criteria for applied epidemiology competencies. The overall outcomes expected of all graduates are as follows:

1. Apply epidemiological methods to address critical and/or emerging public health issues through the use of:
 - Appropriate epidemiological research designs
 - Advanced statistical analysis methods for health studies
 - Data structures and measurement methods for health research
 - Biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being
 - Depth of knowledge in an area of specialization
2. Assimilate the history, philosophy, and ethical principles of epidemiology into current research
3. Develop grant proposals and manage research projects
4. Write scientific papers for publication in peer-reviewed journals, and communicate research results to scientists, policy makers, and the public
5. Compete successfully for research and teaching positions in academic institutions, federal or state agencies, or private institutions.

Details of the Ph.D. in Epidemiology program and application information are available at our website: <http://epidemiology.phhp.ufl.edu/about/ph-d-in-epidemiology-2>.

The **Master of Science in Epidemiology** degree is offered by the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The 36 credit program prepares students for careers in the public health arena that are focused on the surveillance and prevention of illnesses among diverse populations around the world. Students are trained in the foundational aspects of epidemiology including person, place and time, risk and protective factors, and the social determinants of health. Areas of focus include: chronic disease, infectious disease, geriatric, environmental, psychiatric, social, cancer and maternal and child health epidemiology.

Graduates of the M.S. in Epidemiology program are trained to:

- Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to areas of interest,
- Choose appropriate measurement and analytic methods to study health and disease in a population,
- Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health.

The program consists of required coursework and the successful completion of a thesis. The thesis is required to demonstrate skill in independent inquiry and investigation, under the tutelage of a mentor. Students may complete the course in three semesters with 36 credits.

More program information, including specific course requirements and elective options, is described at the program website: <http://epidemiology.phhp.ufl.edu/about/masters-of-science-in-epidemiology/mse-curriculum-2>.

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Science

Epidemiology (PHHP/COM) Departmental Courses

- GMS 6820: Advanced Epidemiology Methods
- PHC 6008: Cardiovascular Epidemiology
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6034: Epidemic Investigation
- PHC 6070: Epidemiology of Aging
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7007: Cancer Epidemiology
- PHC 7038: Psychiatric Epidemiology
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7427: Ethics in Population Science
- PHC 7727: Grant Writing for Population Health Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7902: Epidemiology Supervised Research Writing Circle
- PHC 7910: International Field Epidemiology
- PHC 7916: National Field Epidemiology
- PHC 7934: Seminar I: Epidemiology Past, Present, and Future
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
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- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
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- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
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- PHC 6519: Zoonotic Diseases in Humans and Animals
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- PHC 6702: Exposure Measurement and Assessment

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- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
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- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
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- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
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- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Health Services Research, Management, and Policy Department

Chair: Arch G. Mainous, III

Graduate Coordinator: Patricia Van Wert

Complete faculty listing: [Follow this link.](#)

The Department of Health Services Research, Management, and Policy offers degree programs at both the master's and doctoral level. The Master of Health Administration (M.H.A.) prepares individuals for management positions in the health care field. The Department also participates in the Master of Public Health (M.P.H.) degree by offering a concentration in Public Health Management and Policy (more information available [here](#)).

At the doctoral level, the Department offers the Ph.D. degree in Health Services Research. This full-time program prepares graduates to investigate and evaluate the complexities of health care systems in the U.S. and elsewhere. Health services research is a multidisciplinary field that examines the delivery, organization, financing and outcomes of health care services.

Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog

For more information, please see the program pages below and our website: <http://hsrmp.phhp.ufl.edu>.

Other

Health Administration

College

[College of Public Health and Health Professions](#)

Department/School

[Health Services Research, Management, and Policy Department](#)

Health Administration Program Information

The Master of Health Administration (M.H.A.) is a two-year, lock-step program with a summer internship between the first and second years. Small class size permits individual attention and guidance from faculty members. The program prepares qualified individuals motivated by a social mission and responsibility to the community for various management positions in the health services industry. Organizations seek individuals who have the ability to solve business problems and build strategic relationships in a climate of continuous change.

The UF M.H.A. program develops engaged early health care careerists to use evidence-based strategies to improve healthcare quality, affordability, and access. We provide students with fundamental knowledge using a cohort model in a campus-based setting that emphasizes experiential learning and data-driven problem solving both in the classroom and in the practice environment. Students will develop proficiency to detect, analyze, manage and respond to critical administrative issues in both provider and non-provider healthcare organizations. Our program embraces ethical conduct and professionalism, diversity and inclusion, practitioner involvement and team-based learning. Faculty inform practice with research and service to the community.

Applicants from any undergraduate major are considered. For more information about our program and details about the MBA/MHA dual degree, please see our website: <http://hsmp.php.ufl.edu/academic-programs/master-of-health-administration>.

Degrees

Master of Health Administration

Health Administration Program Courses

- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6177: Advanced Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6905: Individual Study in Health Administration
- HSA6939: Capstone Seminar in Health Administration

Health Services Research, Management, and Policy Departmental Courses

- HSA5103: Introduction to the U.S. Health Care System
- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6175: Health Care Financial Management
- HSA6177: Advanced Health Care Finance

- HSA6179: Introduction to Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6197: Information Management in Health Administration
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6858: Internship in Health Services Research
- HSA6878: Externship in Legal Aspects of Health Services Administration
- HSA6905: Individual Study in Health Administration
- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6935: Seminar in Health Administration
- HSA6939: Capstone Seminar in Health Administration
- HSA6940: Supervised Teaching
- HSA6946: Internship in Public Health Management and Policy
- HSA7106: Seminar in Health Care Access and Utilization
- HSA7116: Health Services Organizational Research
- HSA7157: Research Foundations of Health Policy
- HSA7414: Society, Health, and Medical Care
- HSA7437: Advanced Health Economics
- HSA7707: Health Services Research Methods I
- HSA7708: Health Services Research Methods II
- HSA7759: Quality and Outcomes in Health Services Research
- HSA7905: Advanced Individual Study in Health Services Research
- HSA7936: Seminar in Health Care Costs and Financing
- HSA7938: Advanced Seminar in Health Services Research
- HSA7979: Advanced Research
- HSA7980: Research for Doctoral Dissertation
- PHC 6313: Environmental Health Concepts in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases

- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Health Services Research

College

[College of Public Health and Health Professions](#)

Department/School

[Health Services Research, Management, and Policy Department](#)

Health Services Research Program Information

The Department of Health Services Research, Management and Policy offers a doctoral degree in Health Services Research. Health services research is a multidisciplinary field of inquiry, both basic and applied, that examines the use, costs, quality, accessibility, delivery, organization, financing, and outcomes of healthcare services. The objective is to increase knowledge and understanding of the structure and processes of the healthcare system, and to assess subsequent effects on individuals and populations. Health services research draws on a variety of disciplines, and integrates their conceptual frameworks and methods to provide new ways of studying and understanding the health care system.

The Ph.D. Program in Health Services Research prepares individuals to conduct inquiry that will inform government officials, corporate leaders, clinicians, health plan managers, and others making decisions about complex health-related problems and issues. Students in the Ph.D. Program in Health Services Research learn to apply research methods and scientific knowledge to the study of health services organizations and systems.

Graduates of the Ph.D. Program in Health Services Research will find career opportunities in academic, private sector, and public service settings. For example, some graduates will combine research interests with a teaching career and accept academic appointments in a wide range of health-related departments in the nation's colleges and universities. Other graduates will pursue health services research in the context of healthcare delivery and choose employment opportunities with hospitals and health systems, managed care companies, the pharmaceutical industry and consulting firms. Finally, graduates may pursue careers in government or other public service entities (such as private foundations), whose programs are increasingly dependent upon the findings and methodologies of health services research.

For more details about our program, please see our website: <http://hsmp.php.ufl.edu/academic-programs/ph-d-in-health-services-research>.

Degrees

Doctor of Philosophy

Health Services Research Program Courses

- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6940: Supervised Teaching
- HSA7106: Seminar in Health Care Access and Utilization
- HSA7116: Health Services Organizational Research
- HSA7157: Research Foundations of Health Policy
- HSA7414: Society, Health, and Medical Care
- HSA7437: Advanced Health Economics
- HSA7707: Health Services Research Methods I
- HSA7708: Health Services Research Methods II
- HSA7759: Quality and Outcomes in Health Services Research
- HSA7905: Advanced Individual Study in Health Services Research
- HSA7936: Seminar in Health Care Costs and Financing
- HSA7938: Advanced Seminar in Health Services Research
- HSA7979: Advanced Research
- HSA7980: Research for Doctoral Dissertation

Health Services Research, Management, and Policy Departmental Courses

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- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
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- HSA7938: Advanced Seminar in Health Services Research
- HSA7979: Advanced Research
- HSA7980: Research for Doctoral Dissertation
- PHC 6313: Environmental Health Concepts in Public Health

College of Public Health and Health Professions Courses

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- HSC 6939: Special Topics
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- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
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- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
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- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
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- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
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- PHC 7727: Grant Writing for Population Health Research
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- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
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- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Occupational Therapy Department

Chair: W. C. Mann.

Graduate Coordinator: C. A. Vellozo, J.J. Foss.

Complete faculty listing by department: [Follow this link.](#)

The Department of Occupational Therapy offers graduate programs in occupational therapy leading to the Master of Health Science (M.H.S.) degree (on-campus nonthesis and thesis options and distance learning nonthesis option) and the entry-level Master of Occupational Therapy (M.O.T.) degree. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

Master of Health Science: This program is designed for students who have earned an undergraduate degree in Occupational therapy. The thesis option requires four semesters of course work and a formal research thesis, while the nonthesis option requires three semesters of course work and a research project. The program emphasizes research and advanced theories related to occupational therapy practice. Preparation for teaching, administrative, and other occupational therapy roles is supplemented through elective courses. A coherent series of elective courses related to occupational therapy must be approved by the supervisory committee chairperson before the second semester of work.

In addition to the requirements of the Graduate School, admission requires the candidate to have completed a curriculum in occupational therapy accredited by the American Occupational Therapy Association or by the World Federation of Occupational Therapists.

The distance learning degree option for the Master of Health Science is specifically intended to meet the needs of the working professional. The nonthesis program is designed to improve the knowledge and skills of working occupational therapists for practice in a complex and challenging health care system. It provides preparation for new practice areas, leadership roles, and independent practice and is delivered through the Internet. In addition to the departmental requirements listed above, applicants to the distance learning program must have basic personal

computer competency and access to a computer that meets minimal configuration requirements.

Additional information about the Master of Health Science is available at <http://www.hp.ufl.edu> or <http://gradschool.rnp.ufl.edu> or by telephone at (352)273-6817. For distance learning, see <http://otdlm.phhp.ufl.edu/> or call toll free (866)878-3297.

Master of Occupational Therapy: This entry-level degree program is designed for students who do not have an undergraduate degree in occupational therapy. The program provides students with a holistic perspective, including an understanding of the philosophical and theoretical bases for practice in the current health care environment. The M.O.T. program provides a strong background in theory, assessment, and therapeutic interventions. Before their professional preparation in the M.O.T. program, students receive a liberal education in their pre-professional baccalaureate studies, including several courses specifically focused for students planning to enter the M.O.T. program. Students may enroll in courses in the Bachelor of Health Science degree program at the bachelor's level, or they may complete these courses on a postbaccalaureate level before starting the M.O.T. program. Students are only admitted into the M.O.T. program in summer term and graduate at the end of the fall term after 1.33 years of full-time study (5 semesters) and 58 credits.

Admission requirements include completion of an undergraduate degree and the prerequisite course work. Three letters of reference and a letter of application are required by the Department. Additional information is available at <http://www.phhp.ufl.edu/ot/> and <http://gradschool.rnp.ufl.edu> or by telephone (352)273-6817.

This program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association. The address for ACOTE is 4720 Montgomery Lane, Box 31220, Bethesda, MD, 20814-1220. The phone number is (301) 652-2632. Graduates of the program are eligible to sit for the national certification exam administered by the National Board for Certification in Occupational Therapy (NBCOT). The website address of NBCOT is www.nbcot.org.

Other

Occupational Therapy

College

[College of Public Health and Health Professions](#)

Department/School

[Occupational Therapy Department](#)

Occupational Therapy Program Information

The UF Department of Occupational Therapy offers a Masters in Occupational Therapy (MOT). This program prepares students to meet the demands of a highly technological and fast paced American health care system.

The Masters in Occupational Therapy Degree Program is designed for students who do not have an entry-level professional level OT degree. To prepare to enter the Masters in Occupational Therapy program, undergraduate students may complete the University of Florida [Health Science \(BHS\)](#) degree program and the pre-OT track.

Applicants that have earned an undergraduate degree in a program other than UF's Health Science program can enter the MOT program through our [Conditional Graduate program](#).

By completing the Liberal Arts prerequisites for the program, students study the biological, psychological and social systems that impact on the performance of occupational roles. The MOT program provides a strong background in theory, assessment and therapeutic interventions and assists student to develop a strong professional identity.

Students selected from the Health Science/pre-OT track undergraduate program can apply the 6 pre-OT track course toward the MOT requirements for the MOT program. Students who have graduated from the other colleges or universities can be [admitted to the MOT program](#) and complete the 6 pre-OT track courses as part of their graduate program prior to initiating coursework in the Masters in Occupational Therapy Degree Program. The six Health Science [prerequisite courses](#) are offered the Fall and Spring semesters preceding the Summer start of the MOT coursework.

For more information, please see our website: <http://ot.phhp.ufl.edu/academics/mot/program-description>.

Degrees

Master of Health Science

Master of Occupational Therapy

Occupational Therapy Courses

- OTH 5002: Foundations of Occupational Therapy

- OTH 5115C: Therapeutic Skills II: Areas of Occupation
- OTH 5324: Psychosocial Intervention
- OTH 5435: Therapeutic Skills I
- OTH 5722: Professional Development in Occupational Therapy
- OTH 5726C: Service Delivery and OT Management
- OTH 5770C: Research for Occupational Therapy
- OTH 5812: Practicum I
- OTH 5816: Practicum II
- OTH 5848: Internship I
- OTH 5849: Internship II
- OTH 6008: Neuroscience of Human Occupation
- OTH 6106: Assistive Technology and Occupational Performance
- OTH 6539: Occupational Therapy Theory
- OTH 6635: Principles of Occupational Therapy Screening and Evaluation I
- OTH 6636: Principles of Occupational Therapy Screening and Evaluation II
- OTH 6641: Occupational Therapy Interventions I
- OTH 6642: Occupational Therapy Interventions II
- OTH 6707: OT Manager
- OTH 6708: Issues in Occupational Therapy Practice I
- OTH 6709: Issues in Occupational Therapy Practice II
- OTH 6720: Trends and Issues in Health Care
- OTH 6763: Evidence Based Practice
- OTH 6861: Specialty Internship
- OTH 6905: Individual Work
- OTH 6907: Professional Development Project
- OTH 6933: Special Topics in Occupational Therapy
- OTH 6971: Research for Master's Thesis

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
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- PHC 6441: Health Disparities in the United States
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- PHC 6512: Environmental Management of Vector-Borne Diseases
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- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
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- PHC 7727: Grant Writing for Population Health Research
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- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
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- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
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- RSD 6112: Rehabilitation Science Theory and Application II
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- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Speech, Language and Hearing Sciences Department

Chair: Scott K. Griffiths

Graduate Coordinators: Kenneth J. Logan and Alice Holmes

Complete faculty listing by department: [Follow this link.](#)

Graduate programs in the Department lead to Master of Arts and Doctor of Philosophy degrees in Communication Sciences and Disorders and to the Doctor of Audiology degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate specializations and programs in speech-language pathology and audiology are accredited by the Council on Academic Accreditation/American Speech-Language-Hearing Association.

The **Doctor of Audiology (Au.D.) Program** in the Department of Speech, Language, and Hearing Sciences is a four-year graduate degree. Graduate students take course work in theoretical and applied audiologic sciences and research. There are no specific undergraduate courses required for admission to the Au.D. degree program, although applicants with a strong science background are encouraged to apply. Graduates of this program are eligible for the Certificate of Clinical Competence in Audiology (CCC-A) administered by the American Speech-Language-Hearing Association, Board Certification in Audiology administered by the American Academy of Audiology, and for state licensure in audiology. For more information, contact Alice Holmes, Ph.D. (aholmes@ufl.edu).

The **Ph.D. Program in Communication Sciences and Disorders** provides a state-of-the-art education in research practices in speech-language pathology and audiology with a strong interdisciplinary focus. Our goal is to prepare the next generation of researchers who are specialized in basic and/or applied science that relates to a range of speech, language, hearing, and

swallowing functions. The program is designed to develop researchers who are skilled at independently designing and conducting original research that adds to the body of knowledge in the field. Students are individually mentored and pursue individually designed programs of study tailored to their interests and needs, which incorporate training in appropriate adjunct fields such as engineering, dentistry, gerontology, linguistics, psychology, medicine and special education. For more information, contact Lori Altmann, Ph.D. (laltmann@ufl.edu).

The **Master of Arts (M.A.) Program** offers comprehensive academic training and clinical experience for students who are interested in a career in speech-language pathology. The five-semester program culminates in the completion of either a clinical externship or a Master's thesis, and it provides graduates with a solid foundation for obtaining employment in a variety of work settings. Students have the opportunity to complete clinical practica at sites within the University of Florida's Health Science Center and at other medical, rehabilitative, and educational facilities on or near the campus. These sites allow students to gain experience with providing clinical services to a range of patient populations.

Applicants to the Master's program must demonstrate successful completion of pre-requisite coursework in both normal bases of communication and introductory concepts in communication disorders. Additional information about these pre-requisites is available on the Department website. Graduates of the program are eligible for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association as well as state licensure in speech-language pathology. For more information, contact Kenneth J. Logan, Ph.D. (klogan@ufl.edu).

The Department of Speech, Language, and Hearing Sciences is committed to providing its students with a high-quality educational experience that will prepare them for rewarding employment in the areas of speech-language pathology and audiology, as well as an eagerness for life-long learning and professional development. The department strives to enroll a diverse group of students who possess both high ethical standards and strong academic skills. The application deadlines are January 15 for fall admission to the Ph.D. program, and February 1 for fall admission to the Master's and Au.D. programs.

For more information, please see the program pages below and our website: <http://slhs.php.ufl.edu>.

Other

Audiology

College

[College of Public Health and Health Professions](#)

Department/School

[Speech, Language and Hearing Sciences Department](#)

Degrees Offered with a Major in Audiology

Doctor of Audiology

Speech, Language and Hearing Sciences Departmental Courses

- ASL 5406: Manual Communication with the Hearing Impaired
- LAE 6505: Applied Preschool Language Disorders: Diagnosis and Treatment
- LIN 5741: Applied English Grammar
- SPA 5051: Clinical Observation in Audiology
- SPA 5102: Auditory Anatomy and Physiology
- SPA 5128: Speech Perception
- SPA 5204: Phonological Disorders
- SPA 5211: Voice Disorders
- SPA 5225: Principles of Speech Pathology: Stuttering
- SPA 5245: Communicative Disorders Related to Cleft Palate
- SPA 5254: Neurocognitive Language Disorders
- SPA 5304: Principles of Audiological Evaluation
- SPA 5315: Peripheral and Central Auditory Disorders
- SPA 5401: Speech Pathology Language Disorder
- SPA 5405: Language Disorders II
- SPA 5553: Instrumentation and Diagnosis in Speech-Language Pathology
- SPA 5563: Psychosocial Aspects of Hearing Loss
- SPA 5646: Speech and Language of the Deaf and Hard of Hearing
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- SPA 6010: Basic Auditory Sciences
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- SPA 6233: Speech Motor Control Disorders
- SPA 6270: Auditory Processing Disorders
- SPA 6805: Introduction to Graduate Research
- SPA 6305: Pediatric Audiology

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- SPA6312: Advanced Audiology and Neuro-Otology
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- SPA6340: Amplification I
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- SPA6342: Amplification III
- SPA6390: Proseminar: Speech-Language Pathology and Audiology
- SPA6410: Adult Language Disorders
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- SPA6436: Issues in Autism Spectrum Disorders
- SPA6506: Clinical Clerkship in Audiology
- SPA6507: Applied Augmentative and Alternative Communication
- SPA6521: Practicum in Speech-Language Diagnostics: UFSHC
- SPA6524: Practicum in Speech-Language Therapy: UFSHC
- SPA6531: Clinical Practice in Hearing Assessment
- SPA6533: Clinical Practice in Aural Rehabilitation
- SPA6559: Alternative and Augmentative Communication
- SPA6564: Communication and Aging
- SPA6565: Seminar in Dysphagia
- SPA6568: Clinical Evaluation in Medical Speech-Language Pathology
- SPA6570: Seminar: Professional Aspects of Speech-Language Pathology
- SPA6581: Special Clinical
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- SPA6905: Individual Study
- SPA6910: Supervised Research
- SPA6930: Proseminar in Speech-Language Pathology and Audiology
- SPA6935: Applied Reading Disabilities: Diagnosis and Treatment
- SPA6936: Special Topics
- SPA6940: Supervised Teaching
- SPA6942: Externship in Speech-Language Pathology
- SPA6971: Research for Master's Thesis
- SPA7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions
- SPA7306: Audiologic Assessment in a Medical Setting
- SPA7318: Clinical Auditory Electrophysiology
- SPA7319: Balance Disorders: Evaluation and Treatment
- SPA7325: Audiologic Rehabilitation
- SPA7343: Cochlear Implants and Assistive Devices
- SPA7348: Principles of Amplification
- SPA7353: Environmental Hearing Conservation
- SPA7354: Seminar in Audiology: Hearing Conservation and Noise Control
- SPA7391: Business and Professional Issues in Audiology
- SPA7415: Neurolinguistics of Adult Language Disorders
- SPA7500: Public School Practicum
- SPA7523: Practicum in Speech Pathology in a Medical/Dental Setting
- SPA7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders
- SPA7566: Counseling Individuals with Hearing Losses
- SPA7833: Audiology Research Project
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- SPA7946: Clinical I: Practicum in Medical Speech and Language Pathology
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College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
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- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care

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- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
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Communication Sciences and Disorders

College

[College of Public Health and Health Professions](#)

Department/School

[Speech, Language and Hearing Sciences Department](#)

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Doctor of Philosophy

Master of Arts

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- RCS 6971: Research for Master's Degree

Departments and Programs within the College of the Arts

College of the Arts

Dean: L. Lavelli

Complete faculty listings: [Follow this link.](#)

The arts program at UF began in the 1920s to serve the state of Florida's needs. Meeting these needs over the past 80 years has propelled the college to excel on a national and international level and has defined its mission to provide instruction for students seeking professional careers in the arts. In addition to providing rich educational experiences and programs in the arts, the college brings national and international recognition to the university through the high-level professionalism associated with the faculty and alumni, and the competence of students and graduates.

For more information about the College of the Arts, please see our website: <http://www.arts.ufl.edu>

[Departments and Programs within the College of the Arts](#)

[College of the Arts Courses](#)

Other

Arts in Medicine

College

[College of the Arts](#)

Arts in Medicine Program Information

Center for Arts in Medicine Director: Jill Sonke

Center for Arts in Medicine Graduate Advisor: Dylan Klempner

The Center for Arts in Medicine is committed to advancing research, education, and practice in the arts in healthcare, locally and globally. The Center offers an online Master of Arts in Arts in Medicine. Minimum requirements for the degree are available in the [Graduate Degrees](#) section of this catalog.

Prerequisites and Requirements: Admission to the MA in Arts in Medicine program requires a bachelor's degree in an arts, health, or related field of study, a GRE exam score or previous graduate degree, and completion of the Introduction to the Arts in Healthcare course at UF, or completion of an Arts in Healthcare Summer Intensive, or a minimum of one year of professional experience as an artist or administrator in the field of Arts in Medicine. Requirements of the degree include completion of 35 credits of coursework with a 3.0 or higher GPA.

Commitment of time: The MA in Arts in Medicine is designed to be completed in two years when students are enrolled in one class at a time (with one 8-week semester with two courses). Students should expect to dedicate 16 hours per week to each 8-week 3-credit hour course.

For more information, please see our website: <http://www.arts.ufl.edu/cam>.

Degrees Offered with a Major in Arts in Medicine

Master of Arts

Arts in Medicine Courses

Core Curriculum

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- PHC 6104: Evidence-Based Management of Public Health Programs

Practicum

- HUM6358: Arts in Medicine Capstone Proposal

- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum

Electives

- ANG 6930: Special Topics in Anthropology
- GMS 6822: Measuring and Analyzing Health Outcomes II
- HSA6114: U.S. Health Care System
- HUM6930: Special Topics in Fine Arts
- MVV 6651: Vocal Pedagogy
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- THE 6905: Individual Study

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

School of Art and Art History

[College of the Arts](#)

Director: Richard C. Heipp

Graduate Coordinator: Patrick Grigsby

Complete faculty listing: [Follow this link.](#)

The School of Art and Art History offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. The school also offers Master of Arts degrees in art education, art history, and museology (museum studies) and the Doctor of Philosophy degree in art history. Requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog, and information about each of these graduate programs can be found at the links below.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/art>

Other

Art

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art Program

Master of Fine Arts degree: The school offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. Enrollment is competitive and limited. Candidates for admission should have adequate undergraduate training in art. Deficiencies may be corrected before beginning graduate study. Applicants must submit a portfolio for admission consideration (for comprehensive admission information: <http://www.arts.ufl.edu/programs/grad.aspx>). A minimum of 3 years residency is normally needed to complete the requirements for this degree, which for studio students culminates with an M.F.A. exhibition.

The M.F.A. requires a minimum of 60 credit hours: 24 hours must be in an area of specialization. Normal course requirements include:

- 12 hours of studio electives outside the area of specialization
- 6 hours of art history electives
- 3 hours of outside SA+AH electives (research/discipline appropriate)
- 6 hours of electives
- 6 hours of individual project or thesis research.

Although the M.F.A. is a thesis degree, students usually produce a creative project in lieu of thesis. Students should see the graduate program adviser for the School's requirements for the creative project.

Degrees Offered with a Major in Art

Master of Fine Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art

- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Art Education

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art Education Program

Master of Arts degree in Art Education: The School offers the M.A. in art education. In addition to meeting requirements of the Graduate School for admission, prospective students should:

- Hold a degree in studio art, art history, design, or art education
- Send up to 10 images of original works of art (on CD or in slide form) and a research paper, article, or other sample of academic writing
- Official transcripts from all colleges/universities previously attended
- Statement of professional goals for attending graduate school and earning an M.A. degree in art education
- Current Curriculum Vitae or Resume
- Submit three current letters of recommendation.

The M.A. in art education requires a minimum of 36 credit hours. [ARE 6049](#), [ARE 6148](#), and [ARE 6641](#) are required. The basic plan of study includes 3 credits of an approved art education elective; 9 credits in studio courses; 3 credits in art history; 6 credits in art history, studio, art education, or education electives; 3 credits of [ARE 6746](#); and 3 credits of [ARE 6971](#) or [ARE 6973](#). To be admitted to candidacy, students must pass a comprehensive examination at the beginning of the second year. The program culminates in an oral examination on the thesis or project in lieu of thesis.

Degrees Offered with a Major in Art Education

Master of Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III

- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
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- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Art History

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art History Program

Master of Arts and Doctor of Philosophy degrees in Art History: The School offers graduate programs leading to the M.A. and Ph.D. degrees. For complete details of the M.A. and Ph.D. degree requirements, see the Director of Graduate Studies—Art History. Art History students may participate in courses offered by the State University System's programs in Paris, London, and Florence. Other study-abroad programs may be approved by the director of graduate studies.

For the M.A. degree, the School offers areas of emphasis in Ancient, Medieval, Renaissance/Baroque, Modern, and non-Western art history (including African, Asian, and Oceanic). A minimum of 36 credit hours is required: [ARH 5816](#) (3 credits), 27 hours of course work, and [ARH 6971](#) (6 credits). Required course work includes a minimum of 15 hours with 5 different art history Graduate Faculty (at least 12 hours of this course work must be graduate-level seminars). Nine credits may be taken in related areas with the graduate program adviser's approval. Reading proficiency in a foreign language appropriate to the major area of study must be demonstrated before thesis research is begun. Language courses cannot apply toward degree credit.

For the Ph.D. degree, the School offers the same areas of specialization as for the M.A. degree. Up to 30 credits from the M.A. degree may apply toward the 90 credit Ph.D. degree. A program of 60 credit hours beyond the M.A. degree is required. Core courses will consist of a minimum of 30 hours in art history:

- 18 hours in a primary area (5000-level or above)
- 9 hours in a secondary area (5000-level or above)
- 3 hours of theory/methodology of art history (if [ARH 5816](#) or its equivalent has not been taken as part of the M.A.)
- An additional 12 hours of outside electives taken in other schools or departments are required in a discipline(s) related to the primary area of study
- Finally, 27 hours of dissertation research and writing is required.

By the end of the second semester or equivalent full-time study, students should form their supervisory committee that must include a minimum of four Graduate Faculty members; one of whom must agree to serve as primary dissertation adviser and supervisory committee chair. The supervisory committee will also act as the qualifying examination committee. Normally students will take the qualifying examination during the spring term of the third year in residence. The examination is both written and oral. It will cover the major and minor art history areas of emphasis as well as the student's preliminary formulation of a dissertation topic and provisional statement of the approaches to that topic as expressed in the dissertation prospectus. On successful completion of the qualifying examination, the approval by the supervisory committee of the dissertation prospectus, and fulfilling all other course and language requirements, the student makes formal application for a change of status to Ph.D. candidacy. Normally, a student will be expected to present the completed dissertation and defend it at an oral defense conducted by the supervisory committee by the end of the sixth year in the program. For Ph.D. students, reading knowledge of two research languages other than English must be demonstrated by the end of the second year of course work, or by the end of the first semester in the case of transfer students. Language courses are not applicable toward degree credit.

Degrees Offered with a Major in Art History

Doctor of Philosophy

Master of Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
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- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
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- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
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- ARH 6496: Modern Art Seminar
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- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
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- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
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- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
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- ART 6794C: Vessel Aesthetic 1
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- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
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- ART 6925C: Art + Technology Workshop

- ART 6926C: Advanced Study I
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- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Museology

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Museology Program Information

Master of Arts degree in Museology (Museum Studies): The School offers this interdisciplinary program that consists of both academic and practical work. The curriculum allows students to do graduate work in a disciplinary emphasis (art history, anthropology, history, education, or the natural sciences, for example) and at the same time complete a concentrated study in professional museum practice. The M.A. degree in museology requires 48 credit hours including:

- 15 credits of museum studies courses (museology seminar, 3 credits; collections management, 3 credits; museum education, 3 credits; exhibitions, 3 credits; special topics, 3 credits)
- 15 graduate credits in a disciplinary focus
- 6 credits of internship
- 6 credits of electives
- 6 credits of individual credit.

Several on-campus sites provide the program with laboratories for training students in museum work, including the University Galleries, Harn Museum of Art, Florida Museum of Natural History, and the gallery at the Reitz Union. Students must complete a 6-credit internship of at least 320 hours at an approved museum. In this experience, students undertake specific projects in which they gain first-hand experience in museum work. The Harn Museum of Art or the Florida Museum of Natural History may be able to oversee a few interns, but students are encouraged to apply for internships at other U.S. institutions or abroad.

A project-in-lieu-of-thesis (or thesis) is selected, researched, and carried out under the direction of a supervisory committee.

Degrees Offered with a Major in Museology

Master of Arts

concentration in Historic Preservation

without a concentration

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
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- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
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- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
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- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
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- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
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- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
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- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I

- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Digital Worlds Institute

[College of the Arts](#)

Director: James C. Oliverio

Graduate Coordinator: Marko Suvajdzic

Complete faculty listing: [Follow this link.](#)

The Digital Worlds Institute exists to nurture leading edge education between the arts, communications, engineering and the sciences, utilizing advanced media systems and digital culture. By bringing together the diverse talents of University of Florida faculty, students, and staff in a multifaceted collaborative environment, the Institute serves as a platform for interdisciplinary research and teaching that would not have occurred within the confines of any one college or department. Through the use of interactive tools and technologies, the Institute promotes transdisciplinary creativity across classrooms, continents and cultures.

For more information, please see the program page below and our website: <http://www.digitalworlds.ufl.edu>.

Other

Digital Arts and Sciences (Arts)

College

[College of the Arts](#)

Department/School

[Digital Worlds Institute](#)

Digital Arts and Sciences (Arts) Program Information

The Master of Arts in Digital Arts & Sciences (DAS) degree seeks to allow students from diverse academic backgrounds the opportunity to develop fluency in the technologies, design practices and collaborative interdisciplinary teamwork increasingly required by the media, communications and entertainment industries. Graduates holding the M.A. in DAS degree would typically seek employment in the creative services sector, applying digital techniques and technologies in a variety of professions. Opportunities range from traditional cinema to interactive games; from broadcast media to online international networks to emergent industries.

Although this is a thesis degree, students usually produce a creative project in lieu of thesis. Students should see the graduate coordinator for the requirements for the creative project, which are also provided in the DAS Student Handbook.

Students seeking admission are expected to have an undergraduate background including:

- A degree in one of the fine arts or liberal arts
- A body of work that demonstrates accomplishment in the intended area
- A body of work that can clearly be enhanced with skills to be acquired in the DAS program.

Deficiencies may be corrected before beginning graduate study. In addition to appropriate academic credentials and prior scholastic achievement, admission into the program requires a well-constructed Statement of Purpose and media-related support material (i.e. samples of design, programming, video, web, writing, etc.) that demonstrates both prior interest and/or achievement

in New Media/Digital Arts & Sciences.

Degrees Offered with a Major in Digital Arts and Sciences

Master of Arts

Digital Worlds Departmental Courses

- DIG 5555C: Digital Media Projection Design I
- DIG 5931C: Special Topics
- DIG 6027C: Interactive Storytelling
- DIG 6028: Roots of Digital Culture
- DIG 6050C: Entertainment Technology
- DIG 6125C: Digital Design & Visualization
- DIG 6126C: Interaction Design
- DIG 6256C: Audio Design For Digital Production
- DIG 6358C: APPLIED 3D MODELING
- DIG 6556C: Digital Media Projection Design II
- DIG 6589C: Digital Portfolio
- DIG 6719: Videogame Theory and Analysis
- DIG 6744C: Movement, Media and Machines
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- DIG 6751C: Protocols for Multimedia Interfaces
- DIG 6788C: Digital Production & Game Design
- DIG 6840C: Interdisciplinary Research Seminar in Digital Arts & Sciences
- DIG 6850C: Digital Arts & Sciences Convergence
- DIG 6906: Independent Study - Graduate Level
- DIG 6950C: Digital Performance Production
- DIG 6971: Research for Master's Thesis
- DIG 6973: Capstone Project in Lieu of Thesis
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Music Department

[College of the Arts](#)

Director: J. A. Duff.

Graduate Coordinator: L. S. Odom.

Complete faculty listing by department: [Follow this link.](#)

The School of Music offers programs leading to the Master of Music degree in music and music education. Program concentrations in music include choral conducting, composition, instrumental conducting, musicology, ethnomusicology, music theory, performance, and sacred music. In addition, the School of Music offers the Doctor of Philosophy degree in music and in music education.

The Ph.D. program in music education emphasizes college music teaching. The Ph.D. program in music includes concentrations in:

- Music history and literature, with options in traditional musicology and ethnomusicology
- Composition, with options in acoustic and electroacoustic specialization

All Ph.D. students are encouraged to find opportunities to teach and lecture in their specializations; and with the assistance of their principal professors, to prepare papers, workshops, and clinics for presentation at professional conferences, in the public schools, and at colleges and universities. Students also are encouraged to publish their research in appropriate journals. Minimum requirements for the M.M. and Ph.D. degrees are given in the General Information section of this catalog. The week before classes begin, students must take placement examinations in music history and in music theory. Students wanting to study privately in a performance studio must be auditioned and accepted by the appropriate area faculty. Voice students must demonstrate appropriate skills in language and diction. All deficiencies must be remedied.

For more information, please see the program pages below and our website: <http://www.arts.ufl.edu/welcome/music>.

Other

Music

College

[College of the Arts](#)

Department/School

[Music Department](#)

Music Program Information

The Master of Music (M.M.) degree is offered in music or music education. The music program offers the following concentrations: choral conducting, composition, electronic music, ethnomusicology, instrumental conducting, music education, music history and literature, music theory, performance, and sacred music. The M.M. degree prepares students for careers as teachers in studios, schools, and universities; performers; music historians; music critics; church musicians; composers; conductors; and accompanists.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/music>

Degrees Offered with a Major in Music

Doctor of Philosophy

without a concentration

concentration in Composition

concentration in Music History and Literature

Master of Music

without a concentration

concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Electronic Music

optional second concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Ethnomusicology

concentration in Ethnomusicology

optional second concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Electronic Music

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

concentration in Instrumental Conducting

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music Education

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music History and Literature

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music Theory

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Performance

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Sacred Music

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performace

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Music Departmental Courses

- DIG 6288: Music and Sound Design for Digital Media
- MUC 5315: Introduction to Electroacoustic Music
- MUC 6444: Composition of Electronic Music
- MUC 6445: Electroacoustic Music Composition: Digital I
- MUC 6446: Electroacoustic Music Composition--Digital II
- MUC 6900: Secondary Graduate Composition
- MUC 6930: Graduate Composition
- MUC 6932: Composition Seminar
- MUC 7447: Advanced Seminar in Electroacoustic Music
- MUC 7931: Advanced Graduate Composition
- MUC 7938: Seminar in Digital Sound Processing, Control, and Composition
- MUE 6080: Historical and Philosophical Foundations of Music Education
- MUE 6385: Music in Higher Education
- MUE 6399: Creative Thinking in Music
- MUE 6444: Materials and Methods of String Class Teaching
- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- MUE 6696: Technology Assisted Music Learning
- MUE 6747: Assessing Music Learning
- MUE 6785: Research in Music Education
- MUE 6790: Capstone Project for Music Education
- MUE 6931: Instructional Design in Music Education
- MUE 7746: Measurement and Evaluation of Music
- MUE 7938: Music Education Seminar
- MUG 6105: Graduate Conducting
- MUG 7106: Advanced Graduate Conducting
- MUH 5219: Graduate Music History Review
- MUH 5505: Introduction to Ethnomusicology
- MUH 5684: Introduction to Historical Musicology
- MUH 6526: American Vernacular Music
- MUH 6545: The Guitar in Latin American Culture
- MUH 6548: Seminar in Caribbean Music
- MUH 6549: Seminar in Brazilian Music

- MUH 6635: Seminar in American Music
- MUH 6665: History of Opera
- MUH 6671: Seminar in Renaissance Music
- MUH 6672: Seminar in Baroque Music
- MUH 6673: Seminar in Classical Music
- MUH 6674: Seminar in Nineteenth-Century Music
- MUH 6675: Seminar in Twentieth-Century Music
- MUH 6931: Nationalism in Music
- MUH 6935: Special Topics in Music History
- MUH 7411: Medieval and Renaissance Notation
- MUH 7938: Musicology Seminar
- MUL 6435: String Literature
- MUL 6486: Piano Literature
- MUL 6495: Graduate Organ Literature
- MUL 6555: Survey of Wind Literature
- MUL 6565: Chamber Music Literature
- MUL 6645: Choral Literature
- MUN 6010: Graduate Ensemble
- MUN 6125: Concert Band
- MUN 6135: Symphonic Band
- MUN 6145: Symphonic Wind Ensemble
- MUN 6215: University Orchestra
- MUN 6315: University Choir
- MUN 6325: Women's Chorale
- MUN 6335: Men's Glee Club
- MUN 6445: Percussion Ensemble
- MUN 6495: Steel Drum Ensemble
- MUN 6496: World Music Ensemble
- MUN 6497: New Music Ensemble
- MUN 6715: Jazz Band
- MUR 6206: Survey of Hymnody
- MUR 6705: Sacred Music Literature
- MUS 5911: Directed Study
- MUS 6685: Psychology of Music
- MUS 6716: Methods of Musical Research and Bibliography
- MUS 6905: Projects and Problems
- MUS 6910: Supervised Research
- MUS 6940: Supervised Teaching
- MUS 6971: Research for Master's Thesis
- MUS 6973: Individual Project
- MUS 7656: Teaching Music and the Creative Process
- MUS 7905: Projects and Problems
- MUS 7979: Advanced Research
- MUS 7980: Research for Doctoral Dissertation
- MUT 6051: Graduate Music Theory Review
- MUT 6445: Advanced Counterpoint
- MUT 6531: Figured Bass and Continuo Performance
- MUT 6565: Late Nineteenth- and Twentieth-Century Styles
- MUT 6576: Contemporary Styles
- MUT 6617: Approaches to Theoretical Analysis in Music Education
- MUT 6624: Seminar in Set Theory
- MUT 6627: Seminar in Reductive Analysis
- MUT 6629: Analytical Techniques
- MUT 6751: Pedagogy of Music Theory
- MUT 6936: Music Theory Seminar
- MUT 7316: Advanced Orchestration
- MUT 7585: Seminar in Musical Style
- MUT 7760: History of Music Theory
- MKK 5156: Improvisational Keyboard Skills and Related Technology
- MKK 6605: Organ Pedagogy
- MKK 6651: Piano Pedagogy
- MKK 6661: Advanced Piano Pedagogy
- MO 6250: Secondary Music Performance
- MO 6460: Music Performance
- MO 7460: Music Performance
- MS 6651: String Pedagogy I
- MV 6651: Vocal Pedagogy

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Music Education

College

[College of the Arts](#)

Department/School

[Music Department](#)

Music Education Program Information

The Master of Music (M.M.) degree is offered in music or music education. The music education program offers the following concentrations: choral conducting, composition, electronic music, ethnomusicology, instrumental conducting, music history and literature, music theory, performance, and piano pedagogy. The M.M. degree prepares students for careers as teachers in studios, schools, and universities; performers; music historians; music critics; church musicians; composers; conductors; and accompanists.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/music>

Degrees Offered with a Major in Music Education

Doctor of Philosophy

Master of Music

Without a Concentration

Concentration in Choral Conducting

optional second concentration in Piano Pedagogy

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Electronic Music

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in Piano Pedagogy

optional second concentration in **Ethnomusicology**

Concentration in Ethnomusicology

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Piano Pedagogy**

Concentration in Instrumental Conducting

optional second concentration in Piano Pedagogy

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Concentration in Music History and Literature

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Composition**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Music Theory

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Piano Pedagogy**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Performance

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Composition**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Piano Pedagogy

optional second concentration in **Choral Conducting**

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Music Departmental Courses

- DIG 6288: Music and Sound Design for Digital Media
- MUC 5315: Introduction to Electroacoustic Music
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- MUC 6445: Electroacoustic Music Composition: Digital I
- MUC 6446: Electroacoustic Music Composition—Digital II
- MUC 6900: Secondary Graduate Composition
- MUC 6930: Graduate Composition
- MUC 6932: Composition Seminar
- MUC 7447: Advanced Seminar in Electroacoustic Music
- MUC 7931: Advanced Graduate Composition
- MUC 7938: Seminar in Digital Sound Processing, Control, and Composition
- MUE 6080: Historical and Philosophical Foundations of Music Education
- MUE 6385: Music in Higher Education
- MUE 6399: Creative Thinking in Music
- MUE 6444: Materials and Methods of String Class Teaching

- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- MUE 6696: Technology Assisted Music Learning
- MUE 6747: Assessing Music Learning
- MUE 6785: Research in Music Education
- MUE 6790: Capstone Project for Music Education
- MUE 6931: Instructional Design in Music Education
- MUE 7746: Measurement and Evaluation of Music
- MUE 7938: Music Education Seminar
- MUG 6105: Graduate Conducting
- MUG 7106: Advanced Graduate Conducting
- MUH 5219: Graduate Music History Review
- MUH 5505: Introduction to Ethnomusicology
- MUH 5684: Introduction to Historical Musicology
- MUH 6526: American Vernacular Music
- MUH 6545: The Guitar in Latin American Culture
- MUH 6548: Seminar in Caribbean Music
- MUH 6549: Seminar in Brazilian Music
- MUH 6635: Seminar in American Music
- MUH 6665: History of Opera
- MUH 6671: Seminar in Renaissance Music
- MUH 6672: Seminar in Baroque Music
- MUH 6673: Seminar in Classical Music
- MUH 6674: Seminar in Nineteenth-Century Music
- MUH 6675: Seminar in Twentieth-Century Music
- MUH 6931: Nationalism in Music
- MUH 6935: Special Topics in Music History
- MUH 7411: Medieval and Renaissance Notation
- MUH 7938: Musicology Seminar
- MUL 6435: String Literature
- MUL 6486: Piano Literature
- MUL 6495: Graduate Organ Literature
- MUL 6555: Survey of Wind Literature
- MUL 6565: Chamber Music Literature
- MUL 6645: Choral Literature
- MUN 6010: Graduate Ensemble
- MUN 6125: Concert Band
- MUN 6135: Symphonic Band
- MUN 6145: Symphonic Wind Ensemble
- MUN 6215: University Orchestra
- MUN 6315: University Choir
- MUN 6325: Women's Chorale
- MUN 6335: Men's Glee Club
- MUN 6445: Percussion Ensemble
- MUN 6495: Steel Drum Ensemble
- MUN 6496: World Music Ensemble
- MUN 6497: New Music Ensemble
- MUN 6715: Jazz Band
- MUR 6206: Survey of Hymnody
- MUR 6705: Sacred Music Literature
- MUS 5911: Directed Study
- MUS 6685: Psychology of Music
- MUS 6716: Methods of Musical Research and Bibliography
- MUS 6905: Projects and Problems
- MUS 6910: Supervised Research
- MUS 6940: Supervised Teaching
- MUS 6971: Research for Master's Thesis
- MUS 6973: Individual Project
- MUS 7656: Teaching Music and the Creative Process
- MUS 7905: Projects and Problems
- MUS 7979: Advanced Research
- MUS 7980: Research for Doctoral Dissertation
- MUT 6051: Graduate Music Theory Review
- MUT 6445: Advanced Counterpoint
- MUT 6531: Figured Bass and Continuo Performance
- MUT 6565: Late Nineteenth- and Twentieth-Century Styles
- MUT 6576: Contemporary Styles
- MUT 6617: Approaches to Theoretical Analysis in Music Education
- MUT 6624: Seminar in Set Theory
- MUT 6627: Seminar in Reductive Analysis
- MUT 6629: Analytical Techniques
- MUT 6751: Pedagogy of Music Theory
- MUT 6936: Music Theory Seminar
- MUT 7316: Advanced Orchestration
- MUT 7585: Seminar in Musical Style
- MUT 7760: History of Music Theory
- MKK 5156: Improvisational Keyboard Skills and Related Technology
- MKK 6605: Organ Pedagogy
- MKK 6651: Piano Pedagogy
- MKK 6661: Advanced Piano Pedagogy
- MO 6250: Secondary Music Performance
- MO 6460: Music Performance
- MO 7460: Music Performance
- MMS 6651: String Pedagogy I
- MV 6651: Vocal Pedagogy

School of Theatre and Dance

Director: J. Dickey

Graduate Performance Program Coordinator: Ralf Remshardt

Graduate Design Program Coordinator: S. Kaye

Complete faculty listing by department: [Follow this link.](#)

The graduate program offered by the School of Theatre and Dance leads to the degree of Master of Fine Arts in Theatre. Minimum requirements for this degree are given in the *General Information* section of this catalog.

The M.F.A. degree prepares students for professional entry in acting, production, or teaching. Placement in the M.F.A. program is determined by audition/portfolio review, academic credentials, and personal interview. Candidates for admission should have adequate training in theatre. Deficiencies may be corrected before beginning graduate study.

The program emphasizes the study and practice of theatre as an art and discipline. Students of acting and design study concepts of theatre together while working in their areas of specialization. Focus is on the collaboration and synthesis of theatre artistry. Each incoming class is composed of approximately 12 to 18 students in acting and all design areas.

The student's artistic and academic progress will be reviewed at the end of each semester. The *School of Theatre Handbook* gives details on the form and focus of each review. This information is online at <http://www.arts.ufl.edu/theatreanddance/pages/whatyouneedtoknow/downloads/downloads.asp>.

During the final year of study, each student must successfully complete the comprehensive examination and oral defense. The project in lieu of thesis includes research, analysis, rehearsal process, and evaluation. Development and execution of the project includes public performance (acting or design). The written document and oral defense of the project which follow must demonstrate the ability to communicate the creative process.

Graduate acting students audition for all departmental productions.

Other

Theatre

College

[College of the Arts](#)

Department/School

[School of Theatre and Dance](#)

Degrees Offered with a Major in Theatre

Master of Fine Arts

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Theatre and Dance Departmental Courses

- ARC 6670: Lighting Design Seminar
- DAN 6436: Laban Movement Analysis
- DAA6757: Pilates Technique for the Dancer
- DAA6905: Graduate Dance Project
- DAN 6949: Dance Clinical Practice

- THE 5238: African-American Theatre History and Practice
- THE 5287: History of Decor and Architecture for the Stage
- THE 5910: Introduction to Graduate Study in Theatre
- THE 6265: Costume History
- THE 6525: History, Literature, and Criticism I
- THE 6526: History, Literature, and Criticism II
- THE 6565: Seminar in Creative Process
- THE 6905: Individual Study
- THE 6940: Supervised Teaching
- THE 6941: Internship
- THE 6950: Applied Theatre
- THE 6955: Summer Repertory Theatre
- THE 6971: Research for Master's Thesis
- THE 6973C: Project in Lieu of Thesis
- TPA5025: Lighting Design I
- TPA5047: Costume Design I
- TPA5067: Scene Design I
- TPA5072: Drawing and Rendering
- TPA5079: Graduate Scene Painting
- TPA5082: Advanced Theatre Graphics
- TPA5236: Costume Technologies Workshop
- TPA6005: Design I
- TPA6006: Design II
- TPA6009: Design Studio
- TPA6026: Lighting Design II
- TPA6048: Costume Design II
- TPA6054: Detail Design for Costume Designers
- TPA6069: Scene Design II
- TPA6235: Costume Construction
- TPA6237: Pattern Making: Flat Patternmaking
- TPA6243: Pattern Making: Draping
- TPA6258: Computer Drafting 2D
- TPA6357: Programming and Presentation for the Lighting Designer
- TPP 5234: Multi-Cultural Performance Workshop
- TPP 6115: Graduate Acting I: Modern Acting Theory and Practice
- TPP 6116: Graduate Acting II: Shakespeare and High Style
- TPP 6145: Graduate Acting III: Period Styles
- TPP 6149: Acting IV: Contemporary Realism
- TPP 6225: Professional Seminar: Acting
- TPP 6237: MFA Company Acting Workshop
- TPP 6266: Acting for the Camera
- TPP 6285: Voice and Movement I
- TPP 6286: MFA Voice and Speech II: Shakespeare and High Styles
- TPP 6297: The Alexander Technique I
- TPP 6298: The Alexander Technique II
- TPP 6299: The Alexander Technique III
- TPP 6385: Directing
- TPP 6515: Graduate Movement Training
- TPP 6536: Graduate Stage Combat
- TPP 6717: MFA Voice and Speech III: Period Styles
- TPP 6718: MFA Voice and Speech IV: Advanced Vocal Training for the Actor
- TPP 6946: Performance Practicum

Departments and Programs within the College of Veterinary Medicine

College of Veterinary Medicine

Dean: G. F. Hoffsis

Complete faculty listings: [Follow this link.](#)

The UF College of Veterinary Medicine is the state's only veterinary college. UF's College of Veterinary Medicine offers comprehensive services to the public through teaching, research, extension and state-of-the-art patient care.

For more information, please see our website: <http://www.vetmed.ufl.edu>

[Departments and Programs within the College of Veterinary Medicine](#)

[College of Veterinary Medicine Courses](#)

Other

Veterinary Medical Sciences

College

[College of Veterinary Medicine](#)

Veterinary Medical Sciences Program

Chair: C. Risco

Graduate Coordinator (Large Animals): I. Larkin

Graduate Coordinator (Small Animals): D. Lewis

Complete faculty listing by department: [Follow this link.](#)

The College of Veterinary Medicine offers graduate study leading to the Master of Science and Doctor of Philosophy degrees in veterinary medical sciences. The College also offers certification and a nonthesis concentration in forensic toxicology via web-based distance education. Minimum requirements for the Master of Science and Doctor of Philosophy degrees are described in the *Graduate Degrees* section of this catalog.

The program provides extensive training in basic and applied research for qualified students with a baccalaureate degree or a D.V.M. or equivalent degree. Applicants are expected to have a background in the biological sciences, mathematics, chemistry, and physics. Particular attention is paid to the advanced education of veterinarians, those interested solely in research, and those interested in combining their graduate study with residency training in a clinical specialty. The College offers three areas of specialization within the veterinary medical sciences program:

Large and Small Animal Clinical Sciences: Physiology, endocrinology, aquatic animal health, fish diseases, gastroenterology, immunology, vision sciences, perinatology, reproductive biology, pharmacokinetics, veterinary sports medicine, and wildlife and zoological medicine (I. Larkin and D. Lewis Graduate Coordinators).

Physiological Sciences: Comparative anatomy, physiology, pharmacology, biochemistry, neurobiology, nutrition, reproductive biology, and toxicology (R. Johnson, Graduate Coordinator).

Infectious Diseases and Experimental Pathology: Bacteriology, parasitology, virology, immunopathology, molecular mechanisms of disease and host defense, epidemiology, and veterinary public health (M.T. Long, Graduate Coordinator).

The College participates in the interdisciplinary specialization in toxicology, in cooperation with other departments and colleges in both the Health Science Center and the Institute of Food and Agricultural Sciences and with the Center for Environmental and Human Toxicology (see the Toxicology description under *Interdisciplinary Graduate Studies*).

The following courses in related areas are acceptable for graduate major credit in veterinary medical sciences: **Physiological Sciences:** [ANS 6704](#), [ANS 6751](#), [BCH 5413](#), [BCH 6206](#), [BCH 6415](#), [BCH 6740](#), BMS 6510, [GMS 6400C](#), [GMS 6735](#), GMS 7706C, GMS 7743. **Infectious Diseases and Experimental Pathology:** [BCH 5413](#), [BCH 6415](#), BMS 603, GMS 5304C, [GMS 6140](#), GMS 6152, GMS 6330, GMS 6332, GMS 6333, [GMS 6381](#), [GMS 6382](#), [GMS 6421](#), [STA 6208](#), [STA 6166](#), STA 6176. **Large and Small Animal Clinical Sciences:** all of the above.

Degrees Offered with a Major in Veterinary Medical Sciences

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

concentration in Clinical and Translational Science

concentration in Toxicology

Master of Science

without a concentration

concentration in Forensic Toxicology

concentration in Shelter Medicine

concentration in Veterinary Forensic Sciences

Courses

- GMS 6070: Sensory and Motor Systems
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6393: Seminar in Clinical Chemistry
- PHA 5270: Health Care and Patient Safety
- PHA 5271: Health Care Risk Management
- PHA 5272: Risk Management, Liability and Compliance
- PHA 6115: Equilibria, Complexations, and Interactions of Drugs
- PHA 6116: In Vivo and In Vitro Stability of Drugs
- PHA 6118: Molecular Diversity
- PHA 6125: Pharmacokinetics and Biopharmaceutics
- PHA 6170C: Pharmaceutical Product Formulation
- PHA 6183: Pharmaceutical Gene Delivery
- PHA 6185: Pharmaceutical Drug Development
- PHA 6227: Institutional Pharmacy Leadership I
- PHA 6228: Institutional Pharmacy Leadership II
- PHA 6235: Advanced Pharmaceutical Law
- PHA 6236: Health Sciences Liability Law
- PHA 6250: Patient Responsibility in Health Care
- PHA 6264: Pharmacoeconomics and Health Technology Assessment
- PHA 6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA 6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA 6268: Pharmacoepidemiology and Patient Safety
- PHA 6269: Pharmaceutical Products and Public Policy
- PHA 6273: Structure, Process, and Outcomes of Regulation
- PHA 6274: Federal Regulations of Drugs and Pharmacy
- PHA 6275: Federal Regulations of Controlled Substances
- PHA 6276: Regulating Pharmaceutical Access and Costs
- PHA 6277: Ethics in Drug Development Production and Use
- PHA 6278: State Regulation of Drugs and Pharmacy
- PHA 6279: Pharmaceutical Outcomes and Policy Seminar
- PHA 6286: Pharmaceutical Microeconomics
- PHA 6287: Pharmaceutical Health Economics
- PHA 6288: Critical Review of Research Methods
- PHA 6289: Regulating Clinical Research
- PHA 6291: Pharmaceutical Health Care Systems
- PHA 6416: Pharmaceutical Analysis I
- PHA 6417: Pharmaceutical Analysis II
- PHA 6427: Pharmacogenetics of Drug Metabolism
- PHA 6440: Seminar in Drug Discovery
- PHA 6717: Measurement in Pharmacy Administration Research
- PHA 6793: Evidentiary Basis of Pharmaceutical Use
- PHA 6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA 6798: The Use and Abuse of Statistics in Drug Regulation
- PHA 6799: Patient Safety Program Evaluation
- PHA 6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA 6891: Introduction to Pharmacoepidemiology
- PHA 6892: Practices and Procedures of the IRB
- PHA 6893: Research Ethics
- PHA 6894: Introduction to Graduate Studies
- PHA 6896: Preclinical Drug Evaluation
- PHA 6937: Topics in Pharmaceutical Administration
- PHC 6107: Introduction to Veterinary Public Health
- VME 5162C: Avian Diseases
- VME 5244: Physiology: Organ Systems
- VME 6008: Care of Aquatic Megavertebrates
- VME 6010: Aquatic Animal Conservation Issues
- VME 6011: Introduction to Aquatic Wildlife Health Issues
- VME 6017: Manatee Health & Conservation
- VME 6051: Cruelty to Animals and Interpersonal Violence
- VME 6052: Animal Crime Scene Processing
- VME 6054: Scientific and Legal Principles of Forensic Evidence
- VME 6056: Animal Law
- VME 6076C: Andrology
- VME 6135: Diseases of Laboratory Animals I
- VME 6136: Diseases of Laboratory Animals II
- VME 6186: Advanced Topics in Disease Pathogenesis
- VME 6421: Biology and Molecular Biology of Avian Viruses

- VME 6430C: Contemporary Issues in Small Animal Surgery
- VME 6464: Molecular Pathogenesis
- VME 6505: Autoimmunity
- VME 6570: Wildlife Conservation and Forensic Science
- VME 6571: Forensic Applied Animal Behavior
- VME 6572: Forensic Aspects of Agricultural Animal Welfare
- VME 6573: Wildlife Forensic Genetics
- VME 6575: Veterinary Forensic Medicine
- VME 6576: Veterinary Forensic Pathology
- VME 6577: Veterinary Forensic Pathology in Practice
- VME 6578: Forensic Veterinary Osteology
- VME 6579: Veterinary Forensic Radiology and Imaging
- VME 6602: General Toxicology
- VME 6603: Advanced Toxicology
- VME 6604: Literature Survey in Toxicology
- VME 6605: Toxic Substances
- VME 6606: Ecological Risk Assessment
- VME 6607: Human Health Risk Assessment
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6615: Veterinary Forensic Toxicology
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control
- VME 6767: Issues in the Responsible Conduct of Research
- VME 6771: Veterinary Epidemiologic Research
- VME 6905: Problems in Veterinary Medical Sciences
- VME 6910: Supervised Research
- VME 6931: Seminar in Veterinary Medical Sciences
- VME 6932: Seminar in Physiological Sciences
- VME 6933: Seminar in Infectious Diseases and Experimental Pathology
- VME 6934: Topics in Veterinary Medical Sciences
- VME 6936: Seminar in Pathophysiology
- VME 6938: Topics in Aquatic Animal Health
- VME 6940: Supervised Teaching
- VME 6971: Research for Master's Thesis
- VME 7979: Advanced Research
- VME 7980: Research for Doctoral Dissertation
- WIS 5323C: Impact of Diseases on Wildlife Population

College of Pharmacy Courses

- PHA 5171: Pharmaceutical Biotechnology
- PHA 6521C: Research Techniques in Pharmacodynamics
- PHA 6806: Pharmacoeconomic Modeling
- PHA 6910: Supervised Research
- PHA 6935: Selected Topics in Pharmacy
- PHA 6936: Advanced Topics in Pharmaceutical Sciences
- PHA 6938: Research Seminar
- PHA 6940: Supervised Teaching
- PHA 6971: Research for Master's Thesis
- PHA 7979: Advanced Research
- PHA 7980: Research for Doctoral Dissertation

Pharmacodynamics Courses

- PHA 5531: Neurotoxicology
- PHA 6508: Systems Physiology and Pathophysiology I
- PHA 6509: Systems Physiology and Pathophysiology II
- PHA 6512L: Experiential Research Training in Pharmacodynamics
- PHA 6521C: Research Techniques in Pharmacodynamics
- PHA 6522L: ICBR Molecular Techniques Laboratory
- PHA 6540: Neurochemical Foundation of Pharmacodynamics
- PHA 7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals

- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

Departments and Programs within the Levin College of Law

Fredric G. Levin College of Law

Dean: R. Jerry II

Complete faculty listings: [Follow this link.](#)

The University of Florida Levin College of Law has a longstanding tradition of producing national leaders, including current American Bar Association President Stephen Zack, and is one of the nation's best values in legal education.

For more information, please see our website: <http://www.law.ufl.edu>

[Departments and Programs within Levin College of Law](#)

[Levin College of Law Courses](#)

Comparative Law Department

Director and Graduate Coordinator: P.A. Malavet.

Complete faculty listing by department: [Follow this link.](#)

The LL.M. in Comparative Law degree is designed for graduates of foreign law schools who want to enhance their understanding of the American legal system and the English common law system from which it evolved. Requirements for this degree are given in the *General Information* section of this catalog.

The program begins with Introduction to American Law, a 4-credit summer course that gives students a foundation in the American legal process. It also helps students acclimate to the College of Law and the University community before to the start of the academic year. During the fall and spring terms, and with the director's approval, students choose their remaining 22 credits from more than 100 Juris Doctor and LL.M. in Taxation courses and seminars. For admission information consult the *College of Law Prospectus* or write to the Comparative Law Office P.O. Box 117643, University of Florida, Gainesville, FL 32611-7643 USA.

Other

Comparative Law

College

[Fredric G. Levin College of Law](#)

Department/School

[Comparative Law Department](#)

Degrees Offered with a Major in Comparative Law

Master of Laws in Comparative Law

without a concentration

concentration in Tropical Conservation and Development

Courses

- LAW 7801: Introduction to the Legal System of the United States for LL.M in Comparative Law, Part II
- LAW 7805: Legal Writing and Research for LL.M. in Comparative Law
- LAW 7906: Directed Research for LL.M. in Comparative Law
- LAW 7932: Introduction to the Legal System of the United States for LL.M in Comparative Law, Part I

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing

- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

Environmental and Land Use Law Department

Director and Graduate Coordinator: Christine A. Klein

Complete faculty listing by department: [Follow this link.](#)

Florida's sensitive, varied and beautiful natural environment makes the University of Florida a natural choice for students who want to focus on the national and global issues of land use and environmental law. Florida provides a perfect setting to study first-hand the efforts to reconcile growth and conservation.

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

For more information, please see the program page below and our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>.

Other

Environmental and Land Use Law

College

[Fredric G. Levin College of Law](#)

Department/School

[Environmental and Land Use Law Department](#)

Environmental and Land Use Law Program Information

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

Students admitted to the program work with the LL.M. Program Director to design an individual course of study tailored to their particular interests. In addition to a broad range of academic courses, UF Law offers a wealth of environmental skills and field courses such as the Conservation Clinic, Environmental Dispute Resolution and Wetlands & Watersheds. LL.M. students may also apply for a seat in the spring break field course (previous offerings have included Sustainable Development in Belize, Central America, and Ocean and Coastal Law in Marineland, Florida); the South Florida Everglades field course offered in May (course availability varies) and the Summer Environmental Law Study Abroad Program in Costa Rica.

The program also capitalizes on the many outstanding programs at the University of Florida in disciplines related to environmental and land use law practice, including wildlife ecology, environmental engineering, urban and regional planning, and interdisciplinary ecology. The UF LL.M. program is unique in requiring that 6 of the 26 required credit hours must be from relevant graduate level courses that have substantial non-law content and are offered outside the law school or jointly by the law school and another department. In addition to completing required coursework, LL.M. candidates must complete a written project in connection with a seminar or the Conservation Clinic.

Six credit hours of coursework in graduate-level courses listed outside the law school or jointly listed by the law school and another graduate department and approved by the LL.M. Program Director are required. For elective courses, please visit <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law/degree-requirements>.

For more information about the Environmental and Land Use Law Program, please see our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>, or contact:

University of Florida
Levin College of Law
P.O. Box 117625
Gainesville, FL 32611-7625
Phone: 352-273-0777
Email: elulp@law.ufl.edu

Degrees Offered with a Major in Environmental and Land Use Law

Master of Laws in Environmental and Land Use Law

Courses

- LAW 7493: LL.M. Research: Selected Topics in Environmental & Land Use Law
- LAW 7916: Research Methods and Environmental Land Use Law

Taxation Department

Chair and Graduate Coordinator: M. K. Friel.

Complete faculty listing by department: [Follow this link.](#)

Graduate study in the field of taxation leading to the Master of Laws in Taxation degree or to the Master of Laws in International Tax degree is available in the College of Law.

Applicants for admission to the Graduate School for these degrees must hold a law degree from an accredited law school or in the case of international students, from a recognized foreign university but need not submit scores on the Graduate Record Examination. For further information concerning admission consult the *Graduate Tax Program Catalog*, or write the Tax Office, 320 Holland Law Center.

Other

International Taxation

College

[Fredric G. Levin College of Law](#)

Department/School

[Taxation Department](#)

Degrees Offered with a Major in International Taxation

Master of Laws in International Taxation

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

Taxation

College

[Fredric G. Levin College of Law](#)

Department/School

[Taxation Department](#)

Degrees Offered with a Major in Taxation

Master of Laws in Taxation

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

Departments and Programs within Warrington College of Business Administration

Warrington College of Business Administration

Dean: Jamie Kraft

Complete faculty listings: [Follow this link.](#)

Graduate degrees offered by the Warrington College of Business Administration are the Doctor of Philosophy with major programs in business administration and in economics; the Master of Arts with major programs in economics, in international business, and in business administration with concentrations in insurance and marketing; the Master of Science with major programs in Information Systems and Operations Management (with a concentration in supply chain management), in finance, in management, in real estate, and in business administration, including concentrations in entrepreneurship, insurance, marketing and retail; the Master of Business Administration; and the Master of Accounting. Fields of concentration and requirements for the M.B.A. are given under [Graduate Degrees](#) of this catalog as well as admission and degree requirements for the Ph.D., M.A., and M.S. degrees.

Master of Arts: The M.A. degree with a major in international business is designed to provide students with quantitative and application skills to be used in an international business setting. The program provides practical training with a brief study trip to a major international city, where students are required to participate actively in business tours and lectures. The students also have the opportunity to gain credits for the degree by studying at one or more foreign universities for a period of 2 weeks to 8 months.

Master of Science: The M.S. degree with a major in management targets students from nonbusiness backgrounds who would like to gain "core" business knowledge and application skills. Requirements span the traditional business disciplines to produce a sound knowledge base for students seeking a solid business foundation. Students are required to take such courses as accounting, finance, economics, entrepreneurship, management, marketing, organizational behavior, and statistics. Typical positions for graduates include managers, consultants, and analysts.

Doctor of Philosophy: For the Ph.D. in business administration, students must have a concentration in one of the following:

- Accounting
- Information Systems and Operation Management

- Finance
- Insurance
- Management
- Marketing
- Real estate and urban analysis.

Specific requirements for the various departments and specialties are given in the [Graduate Degrees](#) section in this catalog (Requirements for the Ph.D. degree in economics are described under the *Economics* section of the catalog.) All candidates for the Ph.D. in business administration must satisfy the following general requirements:

Breadth requirement: All applicants for Ph.D. in the business administration program are expected to have completed prior business-related course work at either the advanced undergraduate or graduate level. Students entering without prior work are required to take a minimum of three graduate courses in at least two fields other than their chosen area of concentration. Most often, the appropriate courses will be found in the M.B.A. first-year core; the particular courses to be taken by a student will be decided in consultation with the student's academic adviser. After a student enters the Ph.D. program, the courses taken to satisfy the breadth requirement must be taken in the College of Business Administration.

Research foundations requirement: All students must complete a six-course research skills sequence that prepares them for scholarly research in their chosen area of concentration. Research foundations are defined as essential methodological tools (e.g., statistics, quantitative analysis) and/or substantive content domains (e.g., psychology, economics) outside the student's major field that are considered essential to conducting high quality research in the chosen field. The specific research skills required by each area of concentration can be found in the field descriptions in this Catalog

Other requirements include satisfactory completion of graduate course work in the major field of concentration, as well as one or two minor fields designed to add depth to the student's research training. Minors are selected by the student in consultation with his or her advisory committee, and may be within or outside the College of Business Administration. Other requirements for the Ph.D. are given in the [Graduate Degrees](#) section of this catalog

[Departments and Programs within Warrington College of Business Administration](#)

[Warrington College of Business Courses](#)

Other

Business Administration (M.A.)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Master of Arts

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research

- TAX6105: Corporate Taxation
- TAX6115: Advanced Corporate Taxation
- TAX6205: Partnership Taxation
- TAX6526: International Taxation
- TAX6726: Executive Tax Planning
- TAX6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues

- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems

- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams

- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research

- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (M.B.A)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Master of Business Administration

General

concentration in Competitive Strategy

concentration in Entrepreneurship

concentration in Finance

concentration in Global Management

concentration in Graham-Buffett Security Analysis

concentration in Human Resource Management

concentration in Information Systems and Operations Management

concentration in International Studies

concentration in Latin American Business

concentration in Management

concentration in Marketing

concentration in Real Estate

concentration in Sports Administration

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation

- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I

- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing

- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing

- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (M.S.)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Master of Science

without a concentration

concentration in Retailing

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value

- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I

- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations

- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Ph.D.)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education

- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management

- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming

- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations

- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business

- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Fisher School of Accounting

[Warrington College of Business Administration](#)

Director: Gary A. McGill

Graduate Coordinators: Dominique DeSantiago, Stephen Asare

Complete faculty listing by department: [Follow this link.](#)

As a professional school in a major public research university, the Fisher School of Accounting (FSOA) is committed to scholarly research, teaching, and service to advance knowledge and prepare future leaders for business, professional, and academic careers.

The Fisher School of Accounting offers graduate work leading to the Master of Accounting (M.Acc.) degree with a major in accounting, and the Ph.D. degree with a major in business administration and an accounting concentration. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below, or visit our website: <http://warrington.ufl.edu/accounting>

Other

Accounting

College

[Warrington College of Business Administration](#)

Department/School

[Fisher School of Accounting](#)

Accounting Program Information

Master of Accounting: Three variations of the Master of Accounting degree program are available. These allow students to select one of three tracks: Audit, Tax, and Generalist. Minimum admission requirements include an acceptable score on the Graduate Management Admission Test (GMAT), with a minimum score of 550 and completion of essays with a minimum score of 4. International students must submit a satisfactory score on the following: TOEFL (Test of English as a Foreign Language: paper-based=570, internet-based=86). Additional information, including minimum GPA standards for admission, may be viewed at <http://warrington.ufl.edu/accounting/academics/macc>.

Combined degree program: The recommended curriculum to prepare for a professional career in accounting is the 3/2 five-year program with a joint awarding of the Bachelor of Science in Accounting and Master of Accounting degrees upon completion of the 150-hour program. The entry point into the 3/2 program is the beginning of the senior year.

Traditional Master of Accounting program: Students who have already completed an undergraduate degree in accounting may enter the 1-year M.Acc. degree program which requires satisfactory completion of 34 hours of course work. A minimum of 28 credits must be in graduate-level courses; a minimum of 20 credits must be in graduate-level accounting courses. The remaining credits are selected from recommended elective courses that vary by area of specialization. Students are cautioned to seek early advisement, since many graduate courses are offered only once a year.

J.D./M.Acc. program: A joint program leading to the Juris Doctor and Master of Accounting degrees is offered by the Fisher School of Accounting and Levin College of Law. Specific details for the M.Acc., J.D./M.Acc., and Ph.D. programs are available at <http://warrington.ufl.edu/accounting/academics/jd-macc>.

Degrees Offered with a Major in Accounting

Master of Accounting

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting

- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Business Administration (Accounting)

College

[Warrington College of Business Administration](#)

Department/School

[Fisher School of Accounting](#)

Business Administration (Accounting) Program Information

The Ph.D. program offers a broad-based interdisciplinary training that prepares students to conduct both empirical and analytical research. The curriculum consists of course work of four types: the major field, a breadth requirement, a research foundation requirement, and a minor or supporting field. In addition, students must demonstrate competence in conducting research and teaching and must complete a dissertation on an accounting topic.

The major field in accounting consists of at least 18 credit hours of course work including research analysis, archival research, analytical research, experimental research, readings, and a research project. The breadth requirement consists of at least 13 credit hours of course work including microeconomic theory, corporate finance theory, game theory, asset pricing, and information economics. The research foundation requirement consists of at least 12 hours of graduate course work in mathematical economics, statistics, or econometrics. The minor or supporting field requirement is met by completing a minimum of 12 hours of graduate course work in the selected field.

Students demonstrate competency in conducting research by completing a research project in the summers of the first and second year. The teaching competence is demonstrated by completing at least 1 hour (but no more than 5 hours) of supervised teaching, and by teaching for at least 2 semesters. Admission requirements include a history of academic excellence, adequate score on the GMAT (the average score of recently admitted applicants is 690 for GMAT), competence in written and spoken English (TOEFL Internet-Based test (iBT) required for applicants whose native language is not English), appreciation of accounting issues, and institutional and math competency. The school requires a total score of 91, including a minimum of 26 on the speaking section.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Accounting

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations

- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I

- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II

- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Economics Department

Chair: R. D. Blair

Graduate Coordinator: S. M. Slutsky.

Complete faculty listing: [Follow this link.](#)

The department offers the Master of Arts (thesis and nonthesis option) and Doctor of Philosophy degrees in economics with specializations in econometrics, economic theory, industrial organization, international economics, monetary economics, and public finance.

M.A. requirements: A minimum of 36 credits of course work is required for the M.A. with and without thesis. A maximum of six credits of the research course [ECO 6971](#) may be included for a master's degree with thesis. The following core courses are required: [ECO 7408](#) and [ECO 7404](#) or equivalent, [ECO 7415](#) or equivalent, [ECO 7115](#), and [ECO 7206](#).

Ph.D. requirements: Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) an acceptable score on the GRE, and (c) for nonnative speakers of English, an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

All core courses must be completed in the first year. In addition, students must complete courses in three fields of specializations and pass qualifying examinations in two of those fields.

Complete descriptions of the minimum requirements for the M.A. and Ph.D. degrees are provided elsewhere in this catalog

Other

Economics

College

[Warrington College of Business Administration](#)

Department/School

[Economics Department](#)

Degrees Offered with a Major in Economics

Doctor of Philosophy

Master of Arts

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy

- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Finance, Insurance, and Real Estate Department

Chair: Michael D. Ryngaert

Graduate Coordinator: Mahen Nimalendran

Complete faculty listing: [Follow this link.](#)

The Department of Finance, Insurance, and Real Estate offers graduate work leading to the Master of Science degree with major programs in finance and real estate; the Master of Science in Entrepreneurship (M.S.E.); and the Doctor of Philosophy degree in business administration with a concentration in finance, insurance, quantitative analysis, or real estate. Complete descriptions of the minimum requirements for the M.S., M.S.E., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

Finance, Real Estate, and Entrepreneurship are also available as concentrations within the M.B.A. program. For information about the M.B.A. program, please consult that listing in the [Graduate Degrees](#) section.

For more information see the program pages below, and visit our website: <http://warrington.ufl.edu/departments/fire>.

Other

Business Administration (Finance, Insurance, and Real Estate)

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Business Administration (Finance, Insurance, and Real Estate) Program Information

The Ph.D. in Business Administration - Finance and Real Estate program prepares students to engage in productive scholarly research and teaching in the broad area of financial and real estate economics. Graduates of this program typically are placed with major universities in the United States, although some students choose to work in research positions at non-academic institutions.

The Ph.D. program has a strong emphasis on scholarly research training. Admission requirements include (a) minimum grade point average of 3.5 in the last two years of an undergraduate program and in any previous graduate-level work, (b) minimum GRE score of 1300 or GMAT score of 600 (both verbal and quantitative scores must exceed the sixtieth percentile), and (c) (for nonnative speakers of English) a minimum score of 550 on the TOEFL. Generally students will not be admitted to the Ph.D. program unless they have been offered financial assistance by the University.

Finance

The student pursuing a concentration in finance typically specializes in corporate finance, financial markets and institutions, or investments. The Ph.D. curriculum consists of course work of four types: research foundations, the major field, a minor or supporting field, and a breadth requirement.

The research foundation requirements are comprised of courses in microeconomic theory, macroeconomic theory, mathematical methods and applications to economics, mathematical statistics, and econometrics. The actual courses will depend on the student's background and proposed thesis research.

The major field in finance consists of at least 16 credit hours in graduate course work in finance including financial theory, corporate finance, and seminars in empirical methods, market micro

structure, and special topics. Students may elect to have one "strong" minor (16 credit hours), two "weak" minors (8 credit hours each), or a supporting field which is not declared as a minor. If a supporting field is chosen, at least 16 hours of course work acceptable to the student's supervisory committee must be taken. The supporting field option is selected when a student wishes to take courses across a number of departments. The department offers a combined B.S./M.S. program. Contact the graduate coordinator for information.

The breadth requirement applies only to students with no prior course work in business and consists of financial and managerial accounting or their equivalents, plus two courses out of the following areas: managerial economics, production operations management, or problems and methods in marketing management.

Real Estate

The research foundations are identical to those listed above for finance. The major field, minor, and supporting field requirements have the same credit stipulation as those outlined above for finance, except that the major work is in real estate.

The breadth requirement, as in all concentrations for the business administration program, applies only to students entering without prior course work in business. It consists of at least three courses from the following list (two or more fields must be represented): managers and legal environment of business, finance, money and capital markets, problems and methods of marketing management, consumer behavior, and financial and managerial accounting.

Other degree requirements are listed in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-fre>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Finance

concentration in Insurance

concentration in Quantitative Finance

concentration in Real Estate and Urban Analysis

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making

- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis

- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills

- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models

- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Entrepreneurship

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Entrepreneurship Program Information

The Masters of Science in Entrepreneurship (M.S.E.) program is a one-year, 36-credit, campus-based program designed for young and aspiring entrepreneurs and change-makers. Offered to both business and non-business majors alike, the program is a combination of classroom delivery and experiential learning activities with a focus on opportunity assessment, feasibility analysis, lean entrepreneurial concept testing, business plan development, entrepreneurial leadership, and the sourcing of capital. Students are exposed to cutting edge entrepreneurial theory, which they apply immediately by consulting for small business, commercializing UF technology, and creating their own businesses.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/mse>.

Degrees Offered with a Major in Entrepreneurship

Master of Science in Entrepreneurship

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management

- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication

- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Finance

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Finance Program Information

The student pursuing a major in finance typically specializes in corporate finance, financial markets and institutions, or investments.

Master of Science degree in Finance, nonthesis option: This M.S. program option consists of at least 32 credits in letter-graded courses. It is designed to ensure that each student acquires a basic knowledge of the major financial economics subject areas: corporate finance, derivatives, fixed income securities, investments, international finance, and real estate. The program is designed to prepare students with an undergraduate background in finance for positions in commercial banking, money management, investment banking, and securities markets.

The Department also offers a combined bachelor's/master's program. Contact the admissions director for information.

Master of Science degree in Finance/juris doctorate joint degree program: This joint degree program culminates in the M.S. and J.D. degrees. Applicants must meet the entrance requirements for both the Warrington College of Business Administration and the Levin College of Law. Admission to the second degree program is required no later than the end of the second consecutive semester after beginning one degree in the joint program.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/msf>.

Degrees Offered with a Major in Finance

Master of Science

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking

- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants

- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Real Estate

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Real Estate Program Information

The ten-month, full-time in residence, Nathan S. Collier Master of Science in Real Estate (MSRE) Program, housed in the Warrington College of Business Administration (WCBA), thrives on innovation, a dynamic student body, significant interaction with high-level working professionals, and nationally recognized professors. The program is a unique combination of theory and practice that will both enhance your real estate education and develop your professional skills.

Master of Science degree in real estate, nonthesis option: This M.S. option consists of at least 34 credits of letter-graded courses. It is designed to ensure that each student acquires a basic knowledge of the various functional areas in real estate, real estate finance and investment, real estate development, real estate law and institutions, real estate asset management, international real estate, and advanced training in specialized areas. The capstone course (REE 6948) involves actual projects in which students work in teams to undertake a real estate problem for real clients. This two-tiered program of study provides both a firm theoretical foundation for later professional effectiveness and an applied bridge to professional practice.

Master of Science degree in real estate/juris doctorate joint program: This joint degree program culminates in the M.S. and J.D. degrees. Applicants must meet the entrance requirements for both the Warrington College of Business Administration and the Levin College of Law. Admission to the second degree program is required no later than the end of the second consecutive semester after beginning one degree of the joint program.

The Department also offers a combined bachelor's / master's program for all undergraduate disciplines.

For more information, please contact the admissions director and see our website: <http://warrington.ufl.edu/graduate/academics/msre>.

Degrees Offered with a Major in Real Estate

Master of Science

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking

- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants

- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Information Systems and Operations Management Department

[Warrington College of Business Administration](#)

Chair: Haldun Aytug

Graduate Coordinator: Praveen Pathak

Complete faculty listing: [Follow this link.](#)

The primary mission of the Department of Information Systems & Operations Management is a commitment to scholarly research, teaching and service to advance the state of knowledge in information systems and supply chain management and to train future leaders for professional and academic careers.

The Department offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Combined Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/isom>.

Other

Business Administration (Information Systems and Operations Management)

College

[Warrington College of Business Administration](#)

Department/School

[Information Systems and Operations Management Department](#)

Business Administration (Information Systems and Operations Management)

The Department of Information Systems & Operations Management offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Doctor of Philosophy: The mission of the Ph.D. Program is to educate scholars who will make substantial contributions in their field of research. Our primary goal is to train graduate students to make such contributions. To achieve this goal, we attempt to place students in productive academic research environments. The major areas of study within the department are Information Systems/Information Technology (IS/IT) and Operations Management (OM).

Students come from a variety of backgrounds, with the most common being engineering, computer sciences, mathematics, business, and statistics. Students admitted for the Ph.D. choose to specialize either in information systems/information technology or in operations management. The course schedule taken by each student is always personalized to fit the background of the student and is developed in consultation with the Ph.D. program coordinator and/or chair of the dissertation committee. Additionally, doctoral students will be required to attend all ISOM Workshops and the Department Seminar Series (regardless of area of specialization) held at the University of Florida.

Admission requirements for the Ph.D. include

- A minimum grade point average of 3.2
- A minimum GMAT score of 650, or GRE scores acceptable to the program
- For nonnative speakers of English, submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-isom>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Information Systems and Operations Management

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I

- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions

- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Information Systems and Operations Management

College

[Warrington College of Business Administration](#)

Department/School

[Information Systems and Operations Management Department](#)

Information Systems and Operations Management Program Information

The Department of Information Systems & Operations Management offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Master of Science: The M.S.ISOM program provides computing, analytical, and application skills to be used in a business setting. The primary areas of emphasis in the M.S.ISOM program are business intelligence and analytics, information systems/information technology, and supply chain management. Requirements span traditional academic disciplines to produce a multiple-discipline focus. Typical positions for graduates include decision support specialist, information systems specialist, systems analyst, and logistic support specialist.

For a student with a bachelor's degree in business or economics, the M.S.ISOM non-thesis on-campus program consists of a minimum of 36 credit hours, normally requiring a minimum of three semesters of study, not including summer. For students without a bachelor's degree in business or economics, the M.S.ISOM non-thesis on-campus program consists of a minimum of 40 credit hours, normally requiring a minimum of four semesters of study, not including summer.

All M.S.ISOM candidates must complete 26 credits of core coursework:

- [GEB 5212: Professional Writing in Business](#)
- [GEB 5215: Professional Communication in Business](#)
- [ISM 6128: Advanced Business Systems Design and Development I](#)
- [ISM 6129: Advanced Business Systems Design and Development II](#)
- [ISM 6215: Business Database Systems I](#)
- [ISM 6222: Business Telecom Strategy and Applications I](#)
- [ISM 6223: Business Telecom Strategy and Applications II](#)
- [ISM 6257: Intermediate Business Programming](#)
- [ISM 6258: Advanced Business Programming](#)
- [ISM 6485: Electronic Commerce and Logistics](#) (capstone course)
- [MAN 6581: Project Management](#)
- [OMB 6358: Statistical Analysis for Managerial Decisions I](#)
- [OMB 6755: Managerial Quantitative Analysis I](#)
- [OMB 6756: Managerial Quantitative Analysis II](#)

All M.S.ISOM candidates must also complete 6 credits of track coursework for the information technology, supply chain management, or business intelligence and analytics track:

Information Technology Track

- [ISM 6216: Business Database Systems II](#)
- [ISM 6236: Business Objects I](#)
- [ISM 6259: Business Programming](#)

Supply Chain Management Track

- [MAN 6511: Production Management Problems](#)
- [MAN 6528: Principles of Logistics/Transportation Systems](#)
- [MAN 6573: Purchasing and Materials Management](#)

Business Intelligence and Analytics Track

- [ISM 6216: Business Database Systems II](#)
- [ISM 6405: Business Intelligence](#)
- [ISM 6423: Data Analysis for Decision Support](#)

These required courses total 32 credit hours. In addition, each M.S.ISOM student with an undergraduate major or minor in business must take a minimum of 4 additional hours of approved graduate business electives for a total of 36 credit hours required for the M.S.ISOM degree. For students without an undergraduate business degree or minor, instead of graduate business electives, they must complete four of the following core business courses: [ACG 5005](#), [ACG 5075](#), [ECP 5702](#), [FIN 5437](#), [FIN 5439](#), [MAN 5246](#), [MAR 5806](#).

Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/ms-isom>.

Degrees Offered With a Major in Information Systems and Operations Management

Master of Science in Information Systems and Operations Management

without a concentration

concentration in Supply Chain Management

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I

- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Management Department

[Warrington College of Business Administration](#)

Chair: Robert E. Thomas

Graduate Coordinator: Amir Erez

Complete faculty listing: [Follow this link.](#)

The Management Department offers graduate work leading to a Ph.D. degree with a major in Business Administration and a concentration in Management; a Master of Business Administration degree with a concentration in Management; a Master of Science degree with a major in Management; and a Master of International Business (M.I.B.). Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

The Department participates in combined bachelor's/master's degree programs for the Master of International Business (M.I.B.) and Master of Science (M.S.) with a major in management.

The Master of International Business is open to students pursuing a bachelor's degree in a business discipline or minor in business administration. The M.S. with a major in management program is only open to non-business majors. Contact the graduate coordinator for information.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/mgt>.

Other

Business Administration (Management)

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

Business Administration (Management) Program Information

Doctor of Philosophy

The Ph.D. program in business administration in the Department of Management prepares students for careers as faculty members of universities that emphasize teaching and research. The program is designed so that the student will (1) develop strong competence in the base discipline crucial to the study of organizations and organization processes and (2) follow a field of specialization in organizational behavior, organizational theory, human resource management, and strategic studies. Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) a minimum GRE score of 1000, and (c) for nonnative speakers of English, a minimum score of 550 on the TOEFL.

The research interests of the faculty are quite broad. For example, work is being done on defining the domain of performance in organizations, employee selection, performance appraisal, goal setting and incentives, aging, dispositions and job satisfaction, corporate governance, health care, innovation processes, organizational control and executive compensation practices, agency theory, and organizational processes. Faculty often work on interdisciplinary projects with other departments.

In addition, the student has exposure to scholars and faculty members from other universities, and from other departments in the University, who are invited to give workshops in the Department.

Breadth Requirement: All students pursuing the Ph.D. are expected to be well versed in the structure and functioning of business organizations and the environment within which they operate. This requirement may be met through undergraduate or master's level work in business administration. The student who does not meet the breadth requirement before entering the Ph.D. program must take at least three graduate courses in different functional areas in the Warrington College of Business Administration but outside of the Department of Management. These courses should complement the major area of study selected by the student.

Research Skills Requirement: The general nature of the research requirement has been specified by the Graduate Committee of the Warrington College of Business. Students must take six approved courses to satisfy it. For the typical student in the Department of Management, the research foundation courses include at least 18 credits in courses such as philosophy of social science (e.g., [PHI 5425](#) or [PHI 5405](#)), basic statistical methods (e.g., [STA 6126](#)), research methods (e.g., [MAR 7786](#), [EDF 7486](#), or [PPE 6308](#)), psychometrics (e.g., [EDF 6436](#), [EDF 7439](#)), multivariate analysis ([EDF 7932](#)), experimental design ([MAR 7622](#)), field research methods ([POS 6757](#)), and qualitative research ([EDF 6475](#), [SYA 6315](#)). The specific program is determined by the student's supervisory committee and will be tailored to fit the student's prior preparation and the specialization that the student chooses.

Major Course Requirements: The program of study for each student will include required seminars in Organizational Behavior, Organizational Theory, Strategic Management, and Human Resource Management Research, and the Management Workshop.

Specialization Requirements: Each student selects a specialization area. Courses must provide the depth of knowledge required to teach and conduct research successfully in the area of specialization. This part of the program will be developed by the supervisory committee in conjunction with the student. The specialization courses are primarily offered within the Department of Management, although it is quite common for students to take courses in related disciplines, such as Marketing Finance, Economics, Psychology, Statistics, and Decision and Information Systems. Procedures for the qualifying examinations, dissertation, and final examination are given in the Requirements for the PhD. section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-mgt>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Management

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing

- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity

- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate

- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing

- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

International Business

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

International Business Program

The Master of International Business (M.I.B.) is a non-thesis interdisciplinary graduate business program designed to enhance a student's knowledge and understanding of global business trends and problems.

All M.I.B. candidates must complete the 30-credit curriculum, which consists of 14 core credits and 16 elective credits, with a grade point average (major and overall) of 3.0 or higher. The curriculum includes a mandatory global immersion experience and a non-thesis capstone project.

Combined Degree: The Master of International Business offers a combined bachelor's/master's degree option for students pursuing a bachelor's degree in a business discipline or minor in business administration.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/mib>.

Degrees Offered with a Major in International Business

Master of International Business

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting

- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization

- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate

- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Management

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

Management Program Information

Master of Science degree with a major in Management, non-thesis option: This M.S. program is designed to afford general business competency to students who possess little or no educational business background. The M.S. with a major in management program is only open to non-business majors. Students must complete the 32-credit curriculum, which consists of 22

core credits and 10 elective credits, with a grade point average (major and overall) of 3.0 or higher.

Combined Degree Program: The M.S. with a major in management offers a combined bachelor's/master's degree option.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/msm>.

Degrees Offered with a Major in Management

Master of Science

without a concentration

concentration in Health Care Risk Management

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program

- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods

- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I

- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics

- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Marketing Department

Chair: Joseph W. Alba

Graduate Coordinator: Lyle A. Brenner

Complete faculty listing [Follow this link](#)

The Marketing Department at the University of Florida is a recognized leader in the discipline of marketing. For over a decade, our faculty has ranked as one of the most productive and influential in the field. Our faculty is known for conducting provocative, cutting-edge research that contributes both to the scientific understanding and practice of marketing. Our Ph.D. program has produced many leading researchers in the discipline. And the David F. Miller Center for Retailing Education and Research is known as one of the foremost centers for developing the science of retailing.

The Marketing Department offers graduate work leading to the Ph.D. degree in business administration, the M.S. degree in business administration, and a concentration in the Master of Business Administration (M.B.A.) program. Requirements for the M.B.A., M.S., and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/departments/mkt>.

Other

Business Administration (Marketing - Master's)

College

[Warrington College of Business Administration](#)

Department/School

[Marketing Department](#)

Business Administration (Marketing - Master's)

The Masters of Business Administration (M.B.A) with a concentration in marketing focuses on consumer behavior, marketing management, and marketplace phenomenon. Students study the critical linkages between an organization and its environment, particularly customers and competitors.

The M.S. degree in Business Administration with a concentration in marketing is intended for students whose ultimate objective is to earn a Ph.D. in marketing at another institution. Applicants must have (a) an undergraduate degree from a nationally accredited program, (b) a minimum 3.5 undergraduate GPA, (c) a minimum 600 GMAT (1250 GRE), and (d) evidence of a strong interest in academic research in marketing. The concentration requires 30 credits of graduate-level courses, at least half of which must be in marketing.

Degrees Offered with a Major in Business Administration

Master of Arts

concentration in Marketing

Master of Science

concentration in Marketing

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Marketing - Ph.D.)

College

[Warrington College of Business Administration](#)

Department/School

[Marketing Department](#)

Business Administration (Marketing - Ph.D.)

The doctoral program is research-focused and offers the opportunity for concentrated study in consumer behavior, marketing management, and quantitative or analytical modeling of marketplace phenomena.

The Ph.D. curriculum consists of course work in three areas: research foundations, the major field, and electives. In addition, students are required to complete a first-year summer research project, a third-year review paper, and a dissertation. Other requirements are outlined in the [Graduate Degrees](#) section of this catalog.

The research foundations requirement comprises a set of research methods and data analysis courses chosen from statistics, psychology, and/or economics. The major field course work is made up of a set of four required marketing seminars that are completed during the student's first 2 years in the program. Electives are selected from both advanced marketing seminars and other related disciplines to complement the student's research program.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Marketing

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice

- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management

- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate

- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility

- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Departments within the College of Engineering

College of Engineering

Dean: C. Abernathy

Complete faculty listings: [Follow this link.](#)

The College of Engineering is organized into a number of departments focusing on today's most pressing engineering questions. There is an interdisciplinary culture at the core of Gator Engineering, though, and researchers regularly collaborate with colleagues in departments and colleges beyond their own.

For more information, please see our website: <http://www.eng.ufl.edu>

[Departments and Programs within the College of Engineering](#)

[College of Engineering Courses](#)

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Biomedical Engineering Department

Chair: C. Schmidt

Graduate Coordinator: D. Hintenlang

Complete faculty listing by department: [Follow this link.](#)

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine. The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research. The BME Department currently focuses in: neural engineering, biomaterials, tissue engineering, biomechanics, nanomedicine, biomedical imaging and medical physics. A concentration in Medical Physics is available at both the M.S. and Ph.D. level and prepares students for clinical or research careers in medical imaging or radiation therapy. The Medical Physics concentration is fully accredited by CAMPEP. Additional information on admissions requirements, faculty, and research projects is available at: <http://www.bme.ufl.edu>.

BME graduate students are admitted directly through the BME Department. The BME Graduate Academic Committee reviews and makes all decisions regarding admission. Each student's research adviser must hold a Graduate Faculty appointment in the BME Department. Supervisory committees for BME students normally include at least one member from the College of Engineering and one from the College of Medicine to emphasize the need for a clinical focus in the research.

Chemical Engineering Department

Chair: R. Dickinson.

Graduate Coordinator: A. Chauhan.

Complete faculty listing by department: [Follow this link.](#)

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering

Civil and Coastal Engineering Department

Chair: K. Hatfield

Graduate Coordinator: A. Drescher

Complete faculty listing by department: [Follow this link.](#)

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in [CGN 6974](#) for civil engineering majors, or [EOC 6905](#) for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Computer and Information Science and Engineering Department

[College of Engineering](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Electrical and Computer Engineering Department

Chair: J. Harris.

Graduate Coordinators: G. Bosman, J. McNair

Complete faculty listing: [Follow this link.](#)

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For more information about our program, please visit the link below.

Environmental Engineering Sciences Department

Director: K. Hatfield

Graduate Coordinator: P. Chadik

Complete faculty listing: [Follow this link.](#)

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering Systems Ecology and Ecological Engineering and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas. Please visit the link below for more information about our program in Environmental Engineering Sciences.

Industrial and Systems Engineering Department

Chair: J. Geunes.

Graduate Coordinator: J. C. Smith and P. Mornilovic.

Complete faculty listing by department: [Follow this link.](#)

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Engineer degree and the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., Engineer, and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

Materials Science and Engineering Department

Chair: S. Phillpot

MSE Graduate Coordinator: J. J. Mecholsky, Jr.

NE Graduate Coordinator: E. Dugan

Complete faculty listing by department: [Follow this link.](#)

The Department of Materials Science and Engineering offers the Master of Science and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

The faculties of the Department of Materials Science and Engineering (MSE) of the University of Florida (UF) and the University of Roma Tor Vergata (URTV) have approved a cooperative degree program in Materials Science and Engineering culminating in a Doctor of Philosophy degree, awarded by both universities. Contact the Department for details.

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn

Graduate Coordinator: D. W. Mikolaitis

Complete faculty listing by department: [Follow this link.](#)

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), Engineer, and Doctor of Philosophy in aerospace engineering and mechanical engineering. Minimum requirements for these degrees are given in the *General Information* section of this catalog. Additional information can be found at <http://www.mae.ufl.edu/graduate>. Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of challenging problems. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Nuclear and Radiological Engineering Department

Chair: D. Hintenlang

Graduate Coordinator: W. Bolch

Complete faculty listing: [Follow this link.](#)

The Department offers the degrees of Master of Science, Master of Engineering, and Doctor of Philosophy in nuclear engineering sciences with emphases in nuclear power engineering, medical physics, and health physics. Complete descriptions of the minimum requirements for these degrees are provided in the *General Information* section of this catalog.

The medical physics and health physics options are offered through interdepartmental programs in cooperation with the College of Medicine (see the *Health Physics and Medical Physics* description under *Interdisciplinary Graduate Studies*).

Combined Program — The Department also offers a B.S.N.E./M.S. degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students may begin their master's program while seniors counting 12 hours of specified nuclear engineering sciences graduate courses for both the bachelor's and master's degree requirements. Seniors admitted to the combined program are eligible for teaching and research assistantships. Program admission requirements are (1) satisfaction of Graduate School admission requirements for a master's degree, (2) an upper-division (undergraduate) GPA of at least 3.6, and (3) completion of specified bachelor's degree requirements.

The graduate program has two major programs, Nuclear Engineering and Medical Physics. Specific areas of research and study in Nuclear Engineering include advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security. The Medical Physics program is a CAMPEP accredited program designed to meet the professional requirements for a career in clinical service or research and development. Areas of Medical Physics study and research include diagnostic medical imaging, radiation therapy, nuclear medicine imaging, and radiation dosimetry.

The requirement for admission to the graduate program in nuclear engineering sciences is a bachelor's degree in an approved program in engineering or in the sciences. Students applying to the Medical Physics program should have completed the equivalent of at least a minor in physics. If the student's background is considered deficient for the planned course of study, an articulation program of background courses will be required.

Depending on professional objectives, the student may select a non-thesis option for the MS degree and substitute 8 credits of graduate-level course work, of which at least 6 credits are in nuclear engineering sciences, including a 4-credit (minimum) special project, [ENU 6936](#). Completion of 32 credits will meet the minimum requirements for the non-thesis MS degree.

Normally, the requirements for a master's degree can be completed in 12 months. Students in the medical physics option usually take 21 to 24 months to complete the master's degree, which requires 40-42 credit hours. For a master's degree in health physics, a student must complete 42 hours of credit. If articulation work is required, it may take longer, depending upon the extent of the student's deficiency.

Education Courses - filtered

College of Education

Dean: G. Good.

Complete faculty listings: [Follow this link.](#)

Graduate study in education, allows individuals with bachelor's degrees in agriculture, business, education, engineering, mathematics, sciences, humanities, foreign languages, preprofessional studies and other fields to prepare for rewarding professional careers in education and related fields.

The College of Education offers 19 master's or specialist programs, 12 doctoral programs, and a J.D./Ph.D. program with the College of Law through its three schools: [Human Development and Organizational Studies in Education](#); [Special Education, School Psychology and Early Childhood Studies](#); and [School of Teaching and Learning](#).

Follow these links for more information about UF's College of Education graduate programs:

<http://education.ufl.edu/graduate-studies>

<http://education.ufl.edu/programs>

[Departments and Programs within the College of Education](#)

[College of Education Courses](#)

MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations

Human Development and Organizational Studies in Education Department

Director: Linda B. Eldridge

Graduate Coordinator: Patricia Ashton

Complete faculty listing by department: [Follow this link](#).

Programs leading to the Master of Arts in Education (M.A.E.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees are offered through this school with programs in Counseling and Counselor Education, Educational Leadership, Higher Education Administration, Marriage and Family Counseling, Mental Health Counseling, Research and Evaluation Methodology, School Counseling and Guidance, and Student Personnel in Higher Education.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

More information can be found at our website: <http://education.ufl.edu/hdose>

EDA 5938: Special Topics

EDA 6061: Educational Organization and Administration

EDA 6107: Leading Change in Educational Organizations

EDA 6192: Educational Leadership: The Individual

EDA 6193: Educational Leadership: Instruction

EDA 6195: Educational Policy Development

EDA 6215: Communications in Educational Leadership

EDA 6222: Administration of School Personnel

EDA 6225: Labor Relations in Public Education

EDA 6232: Public School Law

EDA 6242: Public School Finance

EDA 6271: Technology Leadership for Educational Administrators

EDA 6423: Data-Driven Decision Making in Educational Organizations

EDA 6503: The Principalship

EDA 6905: Individual Work

EDA 6931: Special Topics

EDA 6935: Problems in School Administration and Supervision

EDA 6948: Supervised Practice in School Administration

EDA 6971: Research for Master's Thesis

EDA 7206: Organizational Leadership in Education

EDA 7945: Practicum in Supervision and Administration

EDA 7979: Advanced Research

EDA 7980: Research for Doctoral Dissertation

EDA 7985: Research Design in Educational Administration

EDF 5441: Assessment in General and Exceptional Student Education

EDF 6113: Educational Psychology: Human Development

EDF 6211: Educational Psychology: General

EDF 6215: Educational Psychology: Learning Theory

EDF 6232: Principles of Learning and Instructional Practice

EDF 6400: Quantitative Foundations of Education Research Overview

EDF 6401: Educational Statistics

EDF 6402: Quantitative Foundations in Educational Research: Inferential Statistics

EDF 6403: Quantitative Foundations of Educational Research

EDF 6434: Educational Measurement

EDF 6436: Theory of Measurement

EDF 6471: Survey Design and Analysis in Educational Research

EDF 6475: Qualitative Foundations of Educational Research

EDF 6481: Quantitative Research Methods in Education

EDF 6905: Individual Study

EDF 6910: Supervised Research

EDF 6938: Special Topics

EDF 6940: Supervised Teaching

EDF 6941: Practicum in Educational Research

EDF 6971: Research for Master's Thesis

EDF 7117: Affective Development and Education

EDF 7405: Advanced Quantitative Foundations of Educational Research

EDF 7412: Structural Equation Models

EDF 7413: Advanced Topics in Structural Equation Modeling

EDF 7435: Rating Scale Design and Analysis in Educational Research

EDF 7439: Item Response Theory

EDF 7474: Multilevel Models

EDF 7479: Qualitative Data Analysis: Approaches and Techniques

EDF 7483: Qualitative Data Collection: Approaches and Techniques

EDF 7486: Methods of Educational Research

EDF 7491: Evaluation of Educational Products and Systems

EDF 7639: Research in Educational Sociology

EDF 7931: Seminar in Educational Research

EDF 7932: Multivariate Analysis in Educational Research

EDF 7979: Advanced Research

EDF 7980: Research for Doctoral Dissertation

EDG 6250: The School Curriculum

EDG 6285: Evaluation in the School Program

EDG 6356: Teaching, Learning and Assessment

EDG 6905: Individual Work

EDG 6910: Supervised Research

EDG 6931: Special Topics

EDG 6940: Supervised Teaching

EDG 6971: Research for Master's Thesis

EDG 6973: Project in Lieu of Thesis

EDG 7222: Curriculum: Theory and Research

EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education

EDG 7665: Bases of Curriculum and Instruction Theory

EDG 7941: Field Experience in Curriculum and Instruction

EDG 7979: Advanced Research

EDG 7980: Research for Doctoral Dissertation

EDH 6040: Theory of College Student Development

EDH 6046: Diversity Issues in Higher Education

EDH 6049: Domestic and International College Student Services

EDH 6051: Educational Outcomes of American Colleges and Universities

EDH 6053: The Community Junior College in America

EDH 6066: American Higher Education

EDH 6067: Seminar: International Higher Education

EDH 6305: College and University Teaching

EDH 6360: Foundations and Functions of College Student Personnel

EDH 6361: Theories and Assessment of Higher Educational Environments

EDH 6503: Resource Development in Higher Education

EDH 6632: Current Issues in Community College Leadership

EDH 6637: Crisis Management in Higher Education

EDH 6931: Special Topics in Higher Education

EDH 6935: Seminar in College Student Personnel Administration

EDH 6945: Practicum in College Teaching I

EDH 6946: Practicum in College Teaching II

EDH 6947: Practicum in Student Personnel

EDH 7225: Seminar: Curriculum in Higher Education

EDH 7405: The Law and Higher Education

EDH 7505: The Financing of Higher Education

EDH 7631: Administration of Instruction in Higher Education

EDH 7634: Student Affairs Administration in Higher Education

EDH 7635: Higher Education Administration

EDH 7916: Contemporary Research on Higher Education

EDH 7942: Group Supervision in Student Personnel

EDH 7948: Internship in Student Personnel

EDP 6052: Cognitive Psychology Applied to Education

EDS 6140: Supervision of Instruction

MHS 5005: Introduction to Counseling

MHS 6000: Assessment and Treatment of Family Violence

MHS 6020: Counseling in Community Settings

MHS 6061: Spiritual Issues in Multicultural Counseling

MHS 6071: Diagnosis and Treatment of Mental Disorders

MHS 6200: Assessment in Counseling

MHS 6340: Career Development

MHS 6401: Counseling Theories and Applications

MHS 6421: Play Counseling and Play Process with Children

MHS 6428: Multicultural Counseling

MHS 6430: Introduction to Family Counseling

MHS 6440: Marriage Counseling

MHS 6450: Substance Abuse Counseling

MHS 6464: Introduction to Disaster Mental Health Counseling

MHS 6466: Trauma and Crisis Intervention: Theory and Practice

MHS 6468: Multicultural issues in disaster mental health counseling

MHS 6469: Traumatic Stress and Disaster Mental Health Counseling

MHS 6471: Sexuality and Mental Health

MHS 6480: Developmental Counseling Over the Life Span

MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients

MHS 6500: Group Counseling: Theories and Procedures

MHS 6602: Educational Mediation

MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling

MHS 6720: Professional Identity and Ethics in Counseling

MHS 6831: Supervision for a Split Internship

MHS 6905: Individual Work

MHS 6910: Supervised Research

MHS 6940: Supervised Teaching

MHS 6971: Research for Master's Thesis

MHS 7402: Brief Therapy

MHS 7407: Advanced Counseling Theories

MHS 7431: Advanced Family Counseling

MHS 7600: Consultation Procedures

MHS 7610: Practicum in Counseling Supervision

MHS 7730: Seminar in Counseling Research

MHS 7740: Research in Counseling

MHS 7800: Practicum in Counseling

MHS 7804: Group Supervision in Agency Counseling

MHS 7805: Practicum in Agency Counseling

MHS 7806: Practicum in Marriage and Family Counseling

MHS 7807: Group Supervision in Marriage and Family Counseling

MHS 7830: Internship in Counseling and Development-600 Hours

MHS 7840: Internship in Counselor Education

MHS 7946: Internship in Agency Program Management

MHS 7979: Advanced Research

MHS 7980: Research for Doctoral Dissertation

SDS 6401: Counseling Skills for Non-Counselors

SDS 6411: Counseling with Children

SDS 6413: Counseling Adolescents

SDS 6436: Family-School Intervention

SDS 6520: Family, Student Development and Role of Teacher as Adviser

SDS 6620: Organization and Administration of School Counseling Programs

SDS 6831: Supervision for a Split Internship

SDS 6905: Individual Work

SDS 6936: Seminar in Counselor Education

SDS 6938: Special Topics

SDS 7800: Practicum in School Counseling

SDS 7820: Group Supervision in School Counseling

SDS 7830: Internship in Counseling and Development-600 Hours

Special Education, School Psychology and Early Childhood Studies Department

Director: Jean Crockett

Complete faculty listing by department: [Follow this link.](#)

The School of Special Education, School Psychology, and Early Childhood Studies offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 3 areas of specialization: Special Education; School Psychology; and Early Childhood Studies. Programs are accredited by the Florida Department of Education and approved by the National Council for Accreditation of Teacher Education (NCATE). The School Psychology program is approved by the NCATE and the National Association of School Psychologists (NASP). The Ph.D. program in School Psychology is accredited by the American Psychological Association (APA).

EDF 7482: Quasi-experimental Design and Analysis in Educational Research

EEC 6205: Early Childhood Curriculum

EEC 6304: Creativity in the Early Childhood Curriculum

EEC 6525: Issues in Child Care Administration

EEC 6615: Early Childhood Education: Background and Concepts

EEC 6905: Individual Work

EEC 6910: Supervised Research

EEC 6933: Special Topics

EEC 6940: Supervised Teaching

EEC 6946: Practicum in Early Childhood Education

EEC 7056: Early Childhood Policy and Advocacy

EEC 7617: Early Childhood Assessment & Evaluation

EEC 7666: Theory and Research in Early Childhood Studies

EEC 7979: Advanced Research

EEX 5940: Supervised Student Teaching in Special Education

EEX 6053: Foundations of Special Education

EEX 6072: Accessing Academic and Social Communities for Students with Disabilities

EEX 6098: Students with Disabilities in Higher Education

EEX 6125: Interventions for Language and Learning Disabilities

EEX 6219: Reading Assessment and Intervention for Students with Disabilities

EEX 6222: Evaluation in Special Education

EEX 6233: Designing Instruction for Inclusive Classrooms

EEX 6234: Assessment, Curriculum, and Instruction for Students with Severe Disabilities

EEX 6249: Advanced Strategies for Teaching Students with Disabilities

EEX 6269: Academic Strategies for Postsecondary Students with Disabilities

EEX 6296: Differentiated Instruction

EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities

EEX 6661: Teaching and Managing Behavior for Student Learning

EEX 6750: Families and Transition for Students with Disabilities

EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities

EEX 6785: Introduction to Education-Healthcare Transition

EEX 6786: Transdisciplinary and Transition Services in Special Education

EEX 6788: Methods for Integrating Education-Health Care Transition

EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition

EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)

EEX 6835: Practicum in Special Education: Severe Disabilities

EEX 6841: Practicum in Special Education: Mild Disabilities

EEX 6863: Supervised Practice in Special Education

EEX 6905: Individual Work

EEX 6910: Supervised Research

EEX 6936: Special Topics

EEX 6940: Supervised Teaching

EEX 6971: Research for Master's Thesis

EEX 6973: Project in Lieu of Thesis

EEX 7303: Inquiry in Special Education: Analysis of the Literature

EEX 7304: Introduction to Field of Inquiry in Special Education

EEX 7428: Teacher Education in Special Education

EEX 7526: Grant Writing Seminar in Education

EEX 7709: Social-Emotional Learning & Play in Early Childhood

EEX 7787: School Improvement for All Students

EEX 7865: Internship: Special Education

EEX 7934: Seminar: Trends in Special Education

EEX 7979: Advanced Research

EEX 7980: Research for Doctoral Dissertation

EGI 6051: Education of the Gifted Child

EGI 6245: Program Development for the Gifted

SPS 6052: Issues and Problems in School Psychology

SPS 6191: Psychoeducational Assessment I

SPS 6192: Psychoeducational Assessment II

SPS 6193: Academic Assessment & Intervention

SPS 6195: Developmental Psychopathology

SPS 6197: Psychoeducational Assessment III

SPS 6410: Direct Interventions I: Applied Behavior Analysis for School Psychologists

SPS 6707: Interventions in School Psychology II: Cognitive Behavioral Interventions

SPS 6708: Interventions in School Psychology III: System Level Interventions for Children and Youths

SPS 6815: Law and Ethics in Psychology

SPS 6905: Individual Study

SPS 6910: Supervised Research

SPS 6937: Special Topics in School Psychology

SPS 6940: Supervised Teaching

SPS 6941: Practicum in School Psychology

SPS 6942: School Psychology Practicum II

SPS 6945: Advanced Practicum in School Psychology

SPS 7205: School Psychology Consultation

SPS 7931: Seminar in School Psychology

SPS 7949: Internship in School Psychology

SPS 7979: Advanced Research

SPS 7980: Research for Doctoral Dissertation

School of Teaching and Learning

Director: E. Bondy.

Graduate Coordinator: S. G. Terzian.

Complete faculty listing by department: [Follow this link.](#)

The School of Teaching and Learning (<http://education.ufl.edu/school>) offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis or project in lieu of thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees in curriculum and instruction. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 10 areas of specialization: curriculum, teaching, and teacher education; educational technology; elementary education; mathematics education; language and literacy education (including children's literature, English education, ESOL/bilingual education, language arts, and reading education); science and environmental education; social foundations of education; social studies education; and teacher leadership for school improvement.

The nationally recognized Proteach graduate program leads to the M.Ed. degree and state certification as a classroom teacher. Unified Elementary ProTeach admits undergraduates who complete the five-year program with a master's degree. Secondary Proteach (English, Science, Social Studies) prepares teachers who have completed a bachelor's degree in the discipline they will teach. Prospective elementary teachers who already hold a bachelor's degree in a non-education field may want to consider the School's SITE program (Site-based Implementation of Teacher Education), which leads to the M.Ed. degree in curriculum and instruction. Students may apply to the state for alternative certification.

Beyond the Graduate School and College of Education admission requirements, students should have academic preparation and teaching experience appropriate to the program being pursued. Students having deficiencies in their preparation will be required to follow a program to remove such deficiencies. A limited amount of support is available for graduate studies through fellowships, scholarships, research assistantships, and teaching assistantships.

EDE 5940: Integrated Teaching and Learning

EDE 6225: Practices in Childhood Education

EDE 6266: Teaching and Learning in Elementary Classrooms

EDE 6325: Teacher Inquiry/Action Research

EDE 6905: Individual Work

EDE 6910: Supervised Research

EDE 6932: Special Topics

EDE 6948: Internship in Elementary Schools

EDE 7047: Issues in Teacher Education

EDE 7935: Seminar in Curriculum & Instruction

EDF 5552: Role of School in Democratic Society

EDF 6520: History of Education

EDF 6544: Philosophical Foundations of Education

EDF 6606: Socioeconomic Foundations of Education

EDF 6616: Education and American Culture

EDF 6630: Educational Sociology

EDF 6812: Comparative Education

EDF 6820: Education in Latin America

EDF 7555: Values and Ethics in Education

EDF 7934: Seminar in Educational Foundations

EDG 5666: Knowing and Learning in STEM

EDG 6017: Writing for Academic Purposes

EDG 6047: Teacher Leadership for Educational Change

EDG 6207: Transforming the Curriculum

EDG 6225: Global Studies Methods in K-12 Education

EDG 6226: Foundations of Research in Curriculum & Instruction

EDG 6348: Instructional Coaching for Enhanced Student Learning

EDG 6415: Culturally Responsive Classroom Management

EDG 6445: Meeting the Educational Needs of Students Living in Poverty

EDG 6953: TLSI Online Portfolio Preparation

EDG 7224: Critical Pedagogy

EDG 7303: Teacher Learning and Socialization in High Poverty Schools

EDG 7326: Differentiated Supervision and Teacher Professional Development

EDG 7359: Professional Development and Teacher Learning

EDG 7982: Practitioner Research: Theory & Practice

EDM 6005: The Emergent Middle School

EDM 6235: Interdisciplinary Planning, Teaching, and Assessment

EME 5054: Foundations of Educational Technology

EME 5207: Designing Technology-Rich Curricula

EME 5315: Communicating with Technology

EME 5316: Educational Technology Management Issues

EME 5403: Instructional Computing I

EME 5404: Instructional Computing II

EME 5405: Internet in K-12 Instruction

EME 5431: Integrating Technology in the Mathematics Classroom

EME 5432: Integrating Technology into Social Science Classroom

EME 5433: Integrating Technology into Science Classroom

EME 6059: Blended Learning Environments

EME 6066: Issues and Trends in Educational Technology Research

EME 6076: Virtual School Philosophy and Pedagogy

EME 6156: Games and Simulations for Teaching and Learning

EME 6205: Digital Photography and Visual Literacy

EME 6208: Designing Integrated Media Environments I

EME 6209: Designing Integrated Media Environments II

EME 6235: Managing Educational Projects

EME 6236: Distance Education Leadership and Management

EME 6405: Educational Technology and Teaching

EME 6458: Distance Teaching and Learning

EME 6505: Educational Television Design and Production

EME 6602: Human-Computer Interactivity and the Learner

EME 6606: Advanced Instructional Design

EME 6609: Instructional Design

EME 6716: Organization and Administration of Educational Media Centers

EME 6935: Seminar: Distance Education Issues and Applications

EME 6945: Practicum in Educational Media and Instructional Design

EME 7938: Seminar in Educational Media and Instructional Design

ESE 6215: The Secondary School Curriculum

ESE 6344: Classroom Practices and Assessment in Secondary Education

ESE 6345: Effective Teaching and Classroom Management

ESE 6905: Individual Work

ESE 6939: Special Topics

ESE 6945: Student Teaching in Secondary School

FLE 6165: Bilingual-Bicultural Education

FLE 6167: Cross-Cultural Communication for Teachers

FLE 6336: Teaching Foreign Languages in Elementary Schools

FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School

FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level

LAE 6298: Literacy & Language Instruction

LAE 6319: Language Arts in the Elementary School

LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts

LAE 6348: Teaching Multiliteracies

LAE 6365: Language Arts: Language and Composition

LAE 6366: Language Arts: Literature

LAE 6407: Early Childhood Children's Literature

LAE 6446: Multicultural Literature for Children and Adolescents

LAE 6447: Immigrant Experiences in Children's and Adolescent Literature

LAE 6455: International Children's Literature

LAE 6616: Seminar in Children's Literature

LAE 6635: Teaching Adolescent Literature in the Secondary School

LAE 6714: Children's Literature in the Childhood Curriculum

LAE 6861: Technology and Media Literacy

LAE 6865: Teaching Media Literacy with the Internet

LAE 6869: Teaching Digital Storytelling

LAE 6939: Literacy, Family, and Culture

LAE 6945: Practicum and Assessment for Teachers of Secondary School English

LAE 6946: Children's Literature in Educational Settings

LAE 7006: Language Acquisition and Education

LAE 7519: Language and Inquiry

LAE 7715: Research in Children's Literature

LAE 7934: Seminar in Composition Theory and Practice

LAE 7936: Seminar in English Language Arts

MAE 5327: Middle School Mathematics Methods

MAE 5332: Secondary School Mathematics Methods and Assessment

MAE 5347: Teaching K-8 Mathematics for Understanding

MAE 5395: Multicultural Mathematics Methods

MAE 5396: Using Formative Assessment to Improve Mathematical Learning

MAE 5945: Secondary School Mathematics Practicum

MAE 6313: Problem Solving in School Mathematics

MAE 6615: Individualizing Instruction in Mathematics

MAE 6641: Readings and Research in Mathematics Education

MAE 6916: Inquiry in Mathematics Teaching

MAE 7899: Mathematics Education Seminar

RED 5046: Foundations of Reading in Grades PreK-12

RED 5316: Reading in the Primary Grades

RED 5337: Reading in the Secondary School

RED 5355: Reading Instruction in the Intermediate Grades

RED 5399: Practices in Beginning Reading Instruction

RED 6346: Seminar in Reading

RED 6520: Classroom Literacy Assessment and Instruction

RED 6546C: Diagnosis of Reading Difficulties

RED 6548C: Remediation of Reading Difficulties

RED 6647: Trends in Reading

RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties

RED 7019: Foundations of Literacy

RED 7817: Understanding Reading Difficulties

SCE 5316: Inquiry-Based Science Teaching

SCE 5355: Foundations of Science Teaching

SCE 5695: Diversity and Equity in Science Teaching

SCE 5765: Data-Driven Science Instruction

SCE 6045: Environmental Education Methods and Materials

SCE 6117: Science Education in the Elementary School

SCE 6246: Science Instruction in Informal Settings

SCE 6338: Secondary Science Methods and Assessment

SCE 6647: Global Studies Methods in Science Education

SCE 6947: Practicum in Secondary Science Teaching and Assessment

SSE 5320: Middle School Social Studies Methods

SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment

SSE 6046: Perspectives in Social Studies Education

SSE 6117: Social Studies Education—Elementary School

SSE 6133: Secondary School Social Studies Methods and Assessment

SSE 6478: Global Studies Methods in Social Studies

TSL 5142: ESOL Curriculum, Methods, and Assessment

TSL 5325: Secondary ESOL Teaching Strategies

TSL 6145: Curriculum and Materials Development for ESOL K-12

TSL 6245: Language Principles for ESOL Teachers

TSL 6373: Methods of Teaching ESOL K-12

TSL 6440: Testing and Evaluation of ESOL

TSL 6700: Issues in ESOL for School Counselors and Psychologists

Engineering Courses - filtered

College of Engineering

Dean: C. Abernathy

Complete faculty listings: [Follow this link.](#)

The College of Engineering is organized into a number of departments focusing on today's most pressing engineering questions. There is an interdisciplinary culture at the core of Gator Engineering, though, and researchers regularly collaborate with colleagues in departments and colleges beyond their own.

For more information, please see our website: <http://www.eng.ufl.edu>

[Departments and Programs within the College of Engineering](#)

[College of Engineering Courses](#)

EEE 5354L: Semiconductor Device Fabrication Laboratory

EGN 5010L: NRF Training Lab

EGN 5949: Practicum/Internship/Cooperative Work Experience

EGN 6039: Engineering Leadership

EGN 6640: Entrepreneurship for Engineers

EGN 6642: Engineering Innovation

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abc.ufl.edu>.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

ABE 5015: Empirical Models of Crop Growth and Yield Response

ABE 5038: Recent Developments and Applications in Biosensors

ABE 5152: Electro-Hydraulic Circuits and Controls

ABE 5332: Advanced Agricultural Structures

ABE 5442: Advanced Agricultural Process Engineering

ABE 5643C: Biological Systems Modeling

ABE 5646: Biological and Agricultural Systems Simulation

ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials

ABE 5663: Advanced Applied Microbial Biotechnology

ABE 5707C: Agricultural Waste Management

ABE 5815C: Food and Bioprocess Engineering Design

ABE 6005: Applied Control for Automation and Robots

ABE 6031: Instrumentation in Agricultural Engineering Research

ABE 6035: Advanced Remote Sensing: Science and Sensors

ABE 6037C: Remote Sensing in Hydrology

ABE 6252: Advanced Soil and Water Management Engineering

ABE 6254: Simulation of Agricultural Watershed Systems

ABE 6265: Vadose Zone Modeling

ABE 6266: Nanotechnology in Water Research

ABE 6615: Advanced Heat and Mass Transfer in Biological Systems

ABE 6644: Agricultural Decision Systems

ABE 6816: Food and Bioprocess Sterilization

ABE 6905: Individual Work in Agricultural and Biological Engineering

ABE 6910: Supervised Research

ABE 6931: Seminar

ABE 6933: Special Topics in Agricultural and Biological Engineering

ABE 6940: Supervised Teaching

ABE 6971: Research for Master's Thesis

ABE 6972: Research for Engineer's Thesis

ABE 6974: Nonthesis Project

ABE 6986: Applied Mathematics in Agricultural and Biological Engineering

ABE 7979: Advanced Research

ABE 7980: Research for Doctoral Dissertation

CWR 6536: Stochastic Subsurface Hydrology

PKG 5003: Advanced Distribution and Transport Packaging

PKG 5006: Advanced Packaging Principles

PKG 5105: Advanced Consumer Products Packaging

PKG 5206C: Advanced Package Decoration

PKG 5256C: Advanced Analytical Packaging Methods

PKG 6100: Advanced Computer Tools for Packaging

PKG 6905: Individual Work in Packaging**PKG 6932: Special Topics in Packaging Sciences****Biomedical Engineering Department**

Chair: C. Schmidt

Graduate Coordinator: D. Hintenlang

Complete faculty listing by department: [Follow this link.](#)

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine. The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research. The BME Department currently focuses in: neural engineering, biomaterials, tissue engineering, biomechanics, nanomedicine, biomedical imaging and medical physics. A concentration in Medical Physics is available at both the M.S. and Ph.D. level and prepares students for clinical or research careers in medical imaging or radiation therapy. The Medical Physics concentration is fully accredited by CAMPEP. Additional information on admissions requirements, faculty, and research projects is available at: <http://www.bme.ufl.edu>.

BME graduate students are admitted directly through the BME Department. The BME Graduate Academic Committee reviews and makes all decisions regarding admission. Each student's research adviser must hold a Graduate Faculty appointment in the BME Department. Supervisory committees for BME students normally include at least one member from the College of Engineering and one from the College of Medicine to emphasize the need for a clinical focus in the research.

BME 5052L: Biomedical Engineering Laboratory**BME 5085: Patents, Product Development, and Technology Transfer****BME 5401: Biomedical Engineering and Physiology I****BME 5407: Molecular Biomedical Engineering****BME 5500: Biomedical Instrumentation****BME 5703: Statistical Methods for Biomedical Engineering****BME 5937: Special Topics****BME 6010: Clinical Preceptorship****BME 6324: Stem Cell Engineering****BME 6330: Cell and Tissue Engineering****BME 6360: Neural Engineering****BME 6502: Introduction to Medical Imaging****BME 6505: Advanced Diagnostic Radiological Physics****BME 6522: Biomedical Multivariate Signal Processing****BME 6533: Radiologic Anatomy****BME 6534: Advanced Therapeutic Radiological Physics****BME 6535: Radiological Physics, Measurements and Dosimetry****BME 6590: Medical Physics****BME 6591: Therapeutic Radiological Physics I****BME 6592: Therapeutic Radiological Physics II****BME 6593: Therapeutic Radiological Physics III****BME 6705: Mathematical Modeling of Biological and Physiological Systems**

BME 6905: Individual Work in Biomedical Engineering

BME 6907: BME Project

BME 6910: Supervised Research

BME 6936: Biomedical Engineering Seminar

BME 6938: Special Topics in Biomedical Engineering

BME 6940: Supervised Teaching

BME 6971: Research for Master's Thesis

BME 7979: Advanced Research

BME 7980: Research for Doctoral Dissertation

Chemical Engineering Department

Chair: R. Dickinson.

Graduate Coordinator: A. Chauhan.

Complete faculty listing by department: [Follow this link.](#)

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering

BME 6221: Biomolecular Cell Mechanics

BME 6322: Dynamics of Cellular Processes

BME 6644: Pharmacokinetics

ECH 5708: Disinfection, Sterilization, and Preservation

ECH 5938: Topics in Colloid Science

ECH 6126: Thermodynamics of Reaction and Phase Equilibria

ECH 6270: Continuum Basis of Chemical Engineering

ECH 6272: Molecular Basis of Chemical Engineering

ECH 6285: Transport Phenomena

ECH 6326: Computer Control of Processes

ECH 6506: Chemical Engineering Kinetics

ECH 6526: Reactor Design and Optimization

ECH 6709: Electrochemical Engineering Fundamentals and Design

ECH 6726: Interfacial Phenomena I

ECH 6727: Interfacial Phenomena II

ECH 6843: Experimental Basis of Chemical Engineering

ECH 6847: Mathematical Basis of Chemical Engineering

ECH 6851: Impedance Spectroscopy

ECH 6905: Individual Work

ECH 6910: Supervised Research

ECH 6926: Graduate Seminar

ECH 6937: Topics in Chemical Engineering I

ECH 6939: Topics in Chemical Engineering III

ECH 6940: Supervised Teaching

ECH 6971: Research for Master's Thesis

ECH 7938: Advanced Special Chemical Engineering Topics for Doctoral Candidates

ECH 7979: Advanced Research

ECH 7980: Research for Doctoral Dissertation

Civil and Coastal Engineering Department

Chair: K. Hatfield

Graduate Coordinator: A. Drescher

Complete faculty listing by department: [Follow this link.](#)

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in [CGN 6974](#) for civil engineering majors, or [EOC 6905](#) for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

CCE 5035: Construction Planning and Scheduling

CCE 5405: Construction Equipment and Procedures

CCE 6037: Civil Engineering Operations I

CCE 6038: Innovative Construction Techniques

CCE 6505: Computer Applications in Construction Engineering

CCE 6507: Computer Applications in Construction Engineering II

CCE 6516: Topics in Airborne Laser Mapping Technology

CEG 5105: Geotechnical Engineering

CEG 5114: Advanced Geotechnical Aspects of Landfill Design

CEG 5115: Foundation Design

CEG 5205C: Insitu Measurement of Soil Properties

CEG 5206: Geosensing I

CEG 5805: Ground Modification Design

CEG 6015: Advanced Soil Mechanics

CEG 6116: Advanced Shallow Foundation Design

CEG 6117: Advanced Deep Foundation Design

CEG 6201: Experimental Determination of Soil Properties

CEG 6207: Geosensing II

CEG 6405: Seepage in Soils

CEG 6505: Numerical Methods of Geomechanics

CEG 6515: Earth Retaining Systems and Slope Stability

CES 5010: Probabilistic and Stochastic Methods in Civil Engineering

CES 5116: Finite Elements in Civil Engineering

CES 5325: Design of Highway Bridges

CES 5606: Topics in Steel Design

CES 5607: Behavior of Steel Structures

CES 5715: Prestressed Concrete

CES 5726: Design of Concrete Systems

CES 5801: Design and Construction in Timber

CES 5835: Design of Reinforced Masonry Structures

CES 6106: Advanced Structural Analysis

CES 6108: Structural Dynamics

CES 6165: Computer Methods in Structural Engineering

CES 6551: Design of Folded Plates and Shells

CES 6571: Design of Temporary Structures

CES 6585: Wind Engineering

CES 6588: Protective Structures

CES 6590: Impact Engineering

CES 6591: Applied Protective Structures

CES 6592: Retrofit Protective Structures

CES 6593: Advanced Protective Structures

CES 6706: Advanced Reinforced Concrete

CES 6855: Condition Assessment of Structures

CGN 5125: Legal Aspects of Civil Engineering

CGN 5315: Civil Engineering Systems

CGN 5605: Public Works Planning

CGN 5606: Public Works Management

CGN 5715: Experimentation and Instrumentation in Civil Engineering Materials Research

CGN 6150: Engineering Project Management

CGN 6155: Civil Engineering Practice I

CGN 6156: Construction Engineering II

CGN 6505: Properties, Design and Control of Concrete

CGN 6506: Bituminous Materials

CGN 6525: Sustainable Materials

CGN 6905: Special Problems in Civil Engineering

CGN 6910: Supervised Research

CGN 6936: Civil Engineering Graduate Seminar

CGN 6940: Supervised Teaching

CGN 6971: Research for Master's Thesis

CGN 6972: Research for Engineer's Thesis

CGN 6974: Master of Engineering or Engineer Degree Report

CGN 7979: Advanced Research

CGN 7980: Research for Doctoral Dissertation

CWR 5125: Groundwater Flow I

CWR 5127: Evaluation of Groundwater Quality

CWR 5235: Open Channel Hydraulics

CWR 6115: Surface Hydrology

CWR 6126: Variable-Density Groundwater Flow

CWR 6236: Sediment Transport I

CWR 6240: Mixing and Transport in Turbulent Flow

CWR 6255: Diffusive and Dispersive Transport

CWR 6525: Groundwater Flow II

CWR 6537: Contaminant Subsurface Hydrology

EOC 5860: Port and Harbor Engineering

EOC 6196: Littoral Processes

EOC 6430: Coastal Structures

EOC 6850: Numerical Simulation Techniques in Coastal and Ocean Engineering

EOC 6905: Individual Study in Coastal and Oceanographic Engineering

EOC 6932: Selected Field and Laboratory Problems

EOC 6934: Advanced Topics in Coastal and Oceanographic Engineering

EOC 6939: Graduate Seminar

EOC 6971: Research for Master's Thesis

EOC 6972: Research for Engineer's Thesis

EOC 7979: Advanced Research

EOC 7980: Research for Doctoral Dissertation

OCP 5293: Coastal Processes

OCP 6050: Physical Oceanography

OCP 6165: Ocean Waves I: Linear Theory

OCP 6165L: Ocean Waves Laboratory

OCP 6167: Ocean Waves II: Nonlinear Theory

OCP 6168: Data Analysis Techniques for Coastal and Ocean Engineers

OCP 6169: Random Sea Analysis

OCP 6295: Estuarine and Shelf Hydrodynamics I

OCP 6297: Coastal and Estuarine Sediment Transport

OCP 6298: Coastal Sediment Transport Processes

TTE 5006: Advanced Urban Transportation Planning

TTE 5256: Traffic Engineering

TTE 5305: Advanced Transportation Systems Analysis

TTE 5805: Geometric Design of Transportation Facilities

TTE 5835: Pavement Design

TTE 5837: Pavement Management Systems

TTE 6205: Freeway Operations and Simulation

TTE 6207: Advanced Highway Capacity Analysis

TTE 6259: Urban Streets Simulation and Control

TTE 6267: Traffic Flow Theory

TTE 6306: Computational Methods in Transportation Engineering

TTE 6315: Highway Safety Analysis

TTE 6505: Discrete Choice Analysis

TTE 6606: Urban Transportation Models

Computer and Information Science and Engineering Department

[College of Engineering](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

CAP 5100: Human-Computer Interaction

CAP 5416: Computer Vision

CAP 5510: Bioinformatics

CAP 5515: Computational Molecular Biology

CAP 5635: Artificial Intelligence Concepts

CAP 5705: Computer Graphics

CAP 5805: Computer Simulation Concepts

CAP 6137: Malware Reverse Engineering

CAP 6402: Aesthetic Computing

CAP 6516: Medical Image Analysis

CAP 6610: Machine Learning

CAP 6615: Neural Networks for Computing

CAP 6617: Advanced Machine Learning

CAP 6685: Expert Systems

CAP 6701: Advanced Computer Graphics

CDA 5155: Computer Architecture Principles

CDA 5636: Embedded Systems

CDA 6156: High Performance Computer Architecture

CEN 5035: Software Engineering

CEN 6070: Software Testing and Verification

CEN 6075: Software Specification

CIS 6905: Individual Study

CIS 6910: Supervised Research

CIS 6930: Special Topics in CIS

CIS 6935: Graduate Seminar

CIS 6940: Supervised Teaching

CIS 6971: Research for Master's Thesis

CIS 7979: Advanced Research

CIS 7980: Research for Doctoral Dissertation

CNT 5106C: Computer Networks

CNT 5410: Computer and Network Security

CNT 5412: Network and System Security

CNT 5517: Mobile Computing

CNT 6107: Advanced Computer Networks

CNT 6885: Distributed Multimedia Systems

COP 5536: Advanced Data Structures

COP 5555: Programming Language Principles

COP 5615: Distributed Operating System Principles

COP 5618: Concurrent Programming

COP 5625: Programming Language Translators

COP 5725: Database Management Systems

COP 6726: Database System Implementation

COP 6755: Distributed Database Systems

COT 5405: Analysis of Algorithms

COT 5442: Approximation Algorithms

COT 5519: Sparse Matrix Algorithms

COT 5520: Computational Geometry

COT 5615: Mathematics for Intelligent Systems

COT 6315: Formal Languages and Computation Theory

Electrical and Computer Engineering Department

Chair: J. Harris.

Graduate Coordinators: G. Bosman, J. McNair

Complete faculty listing: [Follow this link](#).

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For more information about our program, please visit the link below.

CNT 6805: Network Science and Applications

EEE 5317C: Introduction to Power Electronics

EEE 5320: Bipolar Analog IC Design

EEE 5322: VLSI Circuits and Technology

EEE 5364: Fundamentals of Data Converters

EEE 5400: Future of Microelectronics Technology

EEE 5405: Microelectronic Fabrication Technologies

EEE 5426: Introduction to Nanodevices

EEE 5502: Foundations of Digital Signal Processing

EEE 5544: Noise in Linear Systems

EEE 5556: Electronic Countermeasures

EEE 6287: Brain Machine Interface Engineering

EEE 6321: MOS Analog IC Design

EEE 6323: Advanced VLSI Design

EEE 6325: Computer Simulation of Integrated Circuits and Devices

EEE 6328C: Microwave IC Design

EEE 6374: Radio Frequency (RF) Integrated Circuits and Technologies

EEE 6382: Semiconductor Physical Electronics

EEE 6390: VLSI Device Design

EEE 6397: Semiconductor Device Theory I

EEE 6402: Nonclassical Si-Based Nanoscale CMOS Devices

EEE 6428: Computational Nanoelectronics

EEE 6431: Carbon Nanotubes

EEE 6460: Advanced Microsystem Technology

EEE 6465: Design of MEMS Transducers

EEE 6503: Digital Filtering

EEE 6504: Adaptive Signal Processing

EEE 6512: Image Processing and Computer Vision

EEE 6586: Automatic Speech Processing

EEL 5182: State Variable Methods in Linear Systems

EEL 5225: Principles of Micro-Electro-Mechanical Transducers

EEL 5400: Airborne Sensors and Instrumentation

EEL 5401: Airborne Laser Scanning: Data Processing and Analysis

EEL 5441: Fundamentals of Photonics

EEL 5462: Advanced Antenna Systems

EEL 5490: Lightning

EEL 5666C: Intelligent Machines Design Laboratory

EEL 5718: Computer Communications

EEL 5721: Reconfigurable Computing

EEL 5737: Principles of Computer System Design

EEL 5764: Computer Architecture

EEL 5840: Elements of Machine Intelligence

EEL 5905: Individual Work

EEL 5934: Special Topics in Electrical Engineering

EEL 6065: Electrical & Computer Engineering Technical Writing

EEL 6264: Advanced Electric Energy Systems I

EEL 6265: Advanced Electric Energy Systems II

EEL 6443: Integrated and Fiber Optics

EEL 6486: Electromagnetic Field Theory and Applications I

EEL 6487: Electromagnetic Field Theory and Applications II

EEL 6507: Queuing Theory and Data Communications

EEL 6509: Wireless Communication

EEL 6528: Digital Communications with Software-defined Radios

EEL 6532: Information Theory

EEL 6533: Statistical Decision Theory

EEL 6535: Digital Communications

EEL 6537: Spectral Estimation

EEL 6550: Error Correction Coding

EEL 6555: Signal Processing for Active Sensing

EEL 6588: Wireless Ad Hoc Networks

EEL 6591: Wireless Networks

EEL 6614: Modern Control Theory

EEL 6617: Linear Multivariable Control

EEL 6619: Robust Control Systems

EEL 6686: Embedded Systems Seminar

EEL 6706: Fault-Tolerant Computer Architecture

EEL 6763: Parallel Computer Architecture

EEL 6769: Hardware-Software Interactions: Nonnumeric Processing

EEL 6814: Neural Networks for Signal Processing

EEL 6825: Pattern Recognition and Intelligent Systems

EEL 6841: Machine Intelligence and Synthesis

EEL 6871: Autonomic Computing

EEL 6892: Virtual Computers

EEL 6905: Individual Work

EEL 6910: Supervised Research

EEL 6933: Electrical and Computer Engineering Graduate Seminar

EEL 6935: Special Topics in Electrical Engineering

EEL 6940: Supervised Teaching

EEL 6971: Research for Master's Thesis

EEL 6972: Research for Engineer's Thesis

EEL 7979: Advanced Research

EEL 7980: Research for Doctoral Dissertation

Environmental Engineering Sciences Department

Director: K. Hatfield

Graduate Coordinator: P. Chadik

Complete faculty listing: [Follow this link.](#)

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering; Systems Ecology and Ecological Engineering and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas. Please visit the link below for more

information about our program in Environmental Engineering Sciences.

CWR 6116: Advanced Surface Hydrology

CWR 6252: Environmental Biochemistry of Trace Metals

EES 5105: Advanced Wastewater Microbiology

EES 5107: Ecological and Biological Systems

EES 5207: Environmental Chemistry

EES 5245: Water Quality Analysis

EES 5305C: Ecological and General Systems

EES 5306: Energy Analysis

EES 5307: Ecological Engineering

EES 5315: Ecology and the Environment

EES 5415: Environmental Health

EES 6007: Advanced Energy and Environment

EES 6009: Ecological Economics

EES 6026C: Environmental Systems Dynamics

EES 6028: Spatial Modeling Using Geographic Information Systems

EES 6051: Advanced Environmental Planning and Design

EES 6135: Aquatic Microbiology

EES 6136: Aquatic Autotrophs

EES 6137: Aquatic Heterotrophs

EES 6140: Biology of Exotic Species

EES 6208: Principles of Water Chemistry I

EES 6209: Principles of Water Chemistry II

EES 6225: Atmospheric Chemistry

EES 6246: Advanced Water Analysis

EES 6301: Comparative Approaches in Systems Ecology

EES 6308C: Wetland Ecology

EES 6309: Wetland Treatment Systems

EES 6318: Principles of Industrial Ecology

EES 6335: Springs Ecosystems

EES 6356: Estuarine Systems

EES 6371: Environmental Meteorology and Oceanography

EES 6405: Environmental Toxicology

ENV 5072: Pollution Control and Prevention

ENV 5075: Environmental Policy

ENV 5105: Foundations of Air Pollution

ENV 5305: Advanced Solid Waste Treatment Design

ENV 5306: Municipal Refuse Disposal

ENV 5518: Field Methods in Environmental Hydrology

ENV 5520: Fluid Flow in Environmental Systems

ENV 5555: Wastewater Treatment

ENV 5565: Hydraulic Systems Design

ENV 6050: Advanced Pollutant Transport

ENV 6052: Immiscible Fluids in Porous Media

ENV 6116: Air Pollution Sampling and Analysis

ENV 6126: Air Pollution Control Design

ENV 6130: Aerosol Mechanics

ENV 6146: Atmospheric Dispersion Modeling

ENV 6215: Health Physics

ENV 6216: Radioactive Wastes

ENV 6301: Advanced Solid Waste Containment Design

ENV 6416: Advanced Stormwater Control Systems

ENV 6435: Advanced Water Treatment Process Design

ENV 6435C: Advanced Water Treatment Process Design

ENV 6435L: Water Treatment Process Design Laboratory

ENV 6437: Advanced Wastewater System Design

ENV 6438: Advanced Potable Water Systems Design

ENV 6439: Activated Carbon: Environmental Design and Application

ENV 6441: Water Resources Planning and Management

ENV 6508: Wetland Hydrology

ENV 6510: Groundwater Restoration

ENV 6511: Biological Wastewater Treatment

ENV 6556: Advanced Waste Treatment Operations

ENV 6617: Principles of Green Engineering Design and Sustainability

ENV 6905: Individual Work

ENV 6910: Supervised Research

ENV 6916: Nonthesis Project

ENV 6932: Special Problems in Environmental Engineering

ENV 6935: Graduate Environmental Engineering Seminar

ENV 6971: Research for Master's Thesis

ENV 7979: Advanced Research

ENV 7980: Research for Doctoral Dissertation

Industrial and Systems Engineering Department

Chair: J. Geunes.

Graduate Coordinator: J. C. Smith and P. Momcilovic.

Complete faculty listing by department: [Follow this link.](#)

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Engineer degree and the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., Engineer, and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

EIN 6227: Advanced Quality Management and Engineering for Business Processes

EIN 6336: Advanced Production and Inventory Control

EIN 6357: Advanced Engineering Economy

EIN 6367: Facilities Layout and Location

EIN 6392: Manufacturing Management

EIN 6905: Special Problems

EIN 6910: Supervised Research

EIN 6918: Graduate Seminar

EIN 6940: Supervised Teaching

EIN 6971: Research for Master's Thesis

EIN 6972: Research for Engineer's Thesis

EIN 7933: Special Problems

EIN 7979: Advanced Research

EIN 7980: Research for Doctoral Dissertation

ESI 5236: Reliability Engineering

ESI 6162C: Advanced Industrial Applications of Microprocessors

ESI 6314: Deterministic Methods in Operations Research

ESI 6321: Applied Probability Methods in Engineering

ESI 6323: Models for Supply Chain Management

ESI 6341: Intro to Stochastic Optimization

ESI 6355: Decision Support Systems for Industrial and Systems Engineers

ESI 6417: Linear Programming and Network Optimization

ESI 6418: Linear Programming Extensions and Applications

ESI 6420: Fundamentals of Mathematical Programming

ESI 6429: Introduction to Nonlinear Optimization

ESI 6448: Discrete Optimization Theory

ESI 6449: Integer Programming

ESI 6470: Principles of Manufacturing Systems Engineering

ESI 6492: Global Optimization

ESI 6529: Digital Simulation Techniques

ESI 6533: Advanced Simulation Design and Analysis

ESI 6546: Stochastic Modeling and Analysis

ESI 6552: Systems Architecture

ESI 6553: Systems Design

ESI 6555: Systems Management

ESI 6912: Advanced Topics in ISE

Materials Science and Engineering Department

Chair: S. Phillpot

MSE Graduate Coordinator: J. J. Mecholsky, Jr.

NE Graduate Coordinator: E. Dugan

Complete faculty listing by department: [Follow this link.](#)

The Department of Materials Science and Engineering offers the Master of Science and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

The faculties of the Department of Materials Science and Engineering (MSE) of the University of Florida (UF) and the University of Roma Tor Vergata (URTV) have approved a cooperative

degree program in Materials Science and Engineering culminating in a Doctor of Philosophy degree, awarded by both universities. Contact the Department for details.

EMA 5008: Particle Science and Technology: Theory and Practice

EMA 5095: Critical Analysis of Research in Materials Science & Engineering

EMA 5108: Vacuum Science and Technology

EMA 5365: Biomimetic Synthesis

EMA 6001: Properties of Materials - A Survey

EMA 6005: Thin and Thick Films

EMA 6105: Fundamentals and Applications of Surface Science

EMA 6106: Advanced Phase Diagrams

EMA 6107: High Temperature Materials

EMA 6109: Physical Chemistry of High Temperature Materials

EMA 6110: Electron Theory of Solids for Materials Scientists I

EMA 6111: Electron Theory of Solids for Materials Scientists II

EMA 6114: Advanced Materials Principles 2

EMA 6128: Materials Microstructures

EMA 6136: Diffusion, Kinetics, and Transport Phenomena

EMA 6165: Polymer Physical Science

EMA 6166: Polymer Composites

EMA 6226: Synthesis and Properties of Metallic Nanostructures

EMA 6227: Advanced Mechanical Metallurgy II

EMA 6265: Mechanical Properties of Polymers

EMA 6313: Advanced Materials Principles I

EMA 6315: Colloidal Hydrodynamics

EMA 6316: Materials Thermodynamics

EMA 6319: Applied Colloid and Interfacial Chemistry for Engineers

EMA 6412: Synthesis and Characterization of Electronic Materials

EMA 6416: Organic Electronics

EMA 6445: Electroceramics

EMA 6446: Solid State Ionics

EMA 6448: Ceramic Processing

EMA 6461: Polymer Characterization

EMA 6507: Scanning Electron Microscopy and Microanalysis

EMA 6507L: Scanning Electron Microscopy and Microanalysis Lab

EMA 6510: Survey of Materials Analysis Techniques

EMA 6512C: X-ray Scattering for Thin Film Analysis

EMA 6518: Transmission Electron Microscopy

EMA 6518L: Transmission Electron Microscopy Laboratory

EMA 6519L: Specialized Research Techniques in Materials Science

EMA 6540: Fundamentals of Crystallography

EMA 6541: Applied Crystallography and Powder Diffraction

EMA 6580: Science of Biomaterials I

EMA 6581C: Polymeric Biomaterials

EMA 6589: Mechanical Behavior of Biomaterials

EMA 6590: Advances in Biomaterials and Tissue Engineering for Healthcare

EMA 6591: Clinical Applications of Biomaterials and Tissue Engineering

EMA 6616: Advanced Electronic Materials Processing

EMA 6625: Advanced Metals Processing

EMA 6667: Polymer Processing

EMA 6715: Fracture of Brittle Materials

EMA 6803: Classical Methods in Computational Materials Science

EMA 6804: Quantum Methods in Computational Materials Science

EMA 6805: Mathematical Methods in Materials Science I

EMA 6806: Mathematical Methods in Materials Science II

EMA 6808: Error Analysis and Optimization Methodologies in Materials Research

EMA 6905: Individual Work in Materials Science and Engineering

EMA 6910: Supervised Research

EMA 6936: Seminar in Materials Science and Engineering

EMA 6938: Special Topics in Materials Science and Engineering

EMA 6971: Research for Master's Thesis

EMA 7979: Advanced Research

EMA 7980: Research for Doctoral Dissertation

ENU 6805: Introduction to Nuclear Reactor Materials

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn

Graduate Coordinator: D. W. Mikolaitis

Complete faculty listing by department: [Follow this link.](#)

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), Engineer, and Doctor of Philosophy in aerospace engineering and mechanical engineering. Minimum requirements for these degrees are given in the *General Information* section of this catalog. Additional information can be found at <http://www.mae.ufl.edu/graduate>. Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of challenging problems. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

BME 5580: Introduction to Microfluidics and BioMEMS

EAS 5938: Special Topics in Aerospace Engineering

EAS 6135: Molecular Theory of Fluid Flows

EAS 6138: Gasdynamics

EAS 6242: Advanced Structural Composites

EAS 6415: Guidance and Control of Aerospace Vehicles

EAS 6905: Aerospace Research

EAS 6910: Supervised Research

EAS 6935: Graduate Seminar

EAS 6939: Special Topics in Aerospace Engineering

EAS 6971: Research for Master's Thesis

EAS 7979: Advanced Research

EAS 7980: Research for Doctoral Dissertation

EGM 5005: Laser Principles and Applications

EGM 5111L: Experimental Stress Analysis

EGM 5121C: Data Measurement and Analysis

EGM 5533: Applied Elasticity and Advanced Mechanics of Solids

EGM 5584: Biomechanics of Soft Tissue

EGM 5816: Intermediate Fluid Dynamics

EGM 5933: Special Topics in Engineering Science and Mechanics

EGM 6006: Laser-Based Diagnostics

EGM 6321: Principles of Engineering Analysis I

EGM 6322: Principles of Engineering Analysis II

EGM 6323: Principles of Engineering Analysis III

EGM 6341: Numerical Methods of Engineering Analysis I

EGM 6342: Fundamentals of Computational Fluid Dynamics

EGM 6352: Advanced Finite Element Methods

EGM 6365: Structural Optimization

EGM 6570: Principles of Fracture Mechanics

EGM 6611: Continuum Mechanics

EGM 6671: Inelastic Materials

EGM 6812: Fluid Mechanics I

EGM 6813: Fluid Mechanics II

EGM 6855: Bio-Fluid Mechanics and Bio-Heat Transfer

EGM 6905: Individual Study

EGM 6910: Supervised Research

EGM 6934: Special Topics in Engineering Mechanics

EGM 6936: Graduate Seminar

EGM 6971: Research for Master's Thesis

EGM 7819: Computational Fluid Dynamics

EGM 7845: Turbulent Fluid Flow

EGM 7979: Advanced Research

EGM 7980: Research for Doctoral Dissertation

EML 5045: Computational Methods for Design and Manufacturing

EML 5104: Classical and Statistical Thermodynamics

EML 5124: Two-Phase Flow and Boiling Heat Transfer

EML 5131: Combustion

EML 5215: Analytical Dynamics I

EML 5223: Structural Dynamics

EML 5224: Acoustics

EML 5233: Failure of Materials in Mechanical Design

EML 5311: Control System Theory

EML 5318: Computer Control of Machines and Processes

EML 5455: Clean Combustion Technology

EML 5465: Energy Management for Mechanical Engineers

EML 5515: Gas Turbines and Jet Engines

EML 5516: Design of Thermal Systems

EML 5526: Finite Element Analysis and Application

EML 5595: Mechanics of the Human Locomotor System

EML 5598: Orthopedic Biomechanics

EML 5605: Advanced Refrigeration

EML 5714: Introduction to Compressible Flow

EML 6146: Microscale Heat Transfer

EML 6154: Conduction Heat Transfer

EML 6155: Convective Heat Transfer I

EML 6156: Multiphase Convection Heat Transfer

EML 6157: Radiation Heat Transfer

EML 6216: Analytical Dynamics II

EML 6229: Introduction to Random Dynamical Systems

EML 6267: Structural Dynamics of Production Machinery

EML 6278: Advanced Rotor Dynamics

EML 6281: Geometry of Mechanisms and Robots I

EML 6282: Geometry of Mechanisms and Robots II

EML 6323: Nontraditional Manufacturing

EML 6324: Fundamentals of Production Engineering

EML 6350: Introduction to Nonlinear Control

EML 6351: Nonlinear Control II: Adaptive Control

EML 6352: Optimal Estimation

EML 6365: Robust Control Synthesis

EML 6417: Solar Energy Utilization

EML 6451: Energy Conversion

EML 6606: Advanced Air Conditioning

EML 6905: Individual Projects in Mechanical Engineering

EML 6934: Special Topics in Mechanical Engineering

EML 6936: Nonthesis Project

EML 6971: Research for Master's Thesis

EML 7979: Advanced Research

EML 7980: Research for Doctoral Dissertation

Nuclear and Radiological Engineering Department

Chair: D. Hintenlang

Graduate Coordinator: W. Bolch

Complete faculty listing [Follow this link](#).

The Department offers the degrees of Master of Science, Master of Engineering, and Doctor of Philosophy in nuclear engineering sciences with emphases in nuclear power engineering, medical physics, and health physics. Complete descriptions of the minimum requirements for these degrees are provided in the *General Information* section of this catalog.

The medical physics and health physics options are offered through interdepartmental programs in cooperation with the College of Medicine (see the *Health Physics and Medical Physics* description under *Interdisciplinary Graduate Studies*).

Combined Program — The Department also offers a B.S.N.E./M.S. degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students may begin their master's program while seniors counting 12 hours of specified nuclear engineering sciences graduate courses for both the bachelor's and master's degree requirements. Seniors admitted to the combined program are eligible for teaching and research assistantships. Program admission requirements are (1) satisfaction of Graduate School admission requirements for a master's degree, (2) an upper-division (undergraduate) GPA of at least 3.6, and (3) completion of specified bachelor's degree requirements.

The graduate program has two major programs, Nuclear Engineering and Medical Physics. Specific areas of research and study in Nuclear Engineering include advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security. The Medical Physics program is a CAMPEP accredited program designed to meet the professional requirements for a career in clinical service or research and development. Areas of Medical Physics study and research include diagnostic medical imaging, radiation therapy, nuclear medicine imaging, and radiation dosimetry.

The requirement for admission to the graduate program in nuclear engineering sciences is a bachelor's degree in an approved program in engineering or in the sciences. Students applying to the Medical Physics program should have completed the equivalent of at least a minor in physics. If the student's background is considered deficient for the planned course of study, an articulation program of background courses will be required.

Depending on professional objectives, the student may select a non-thesis option for the MS degree and substitute 8 credits of graduate-level course work, of which at least 6 credits are in nuclear engineering sciences, including a 4-credit (minimum) special project, [ENU 6936](#). Completion of 32 credits will meet the minimum requirements for the non-thesis MS degree.

Normally, the requirements for a master's degree can be completed in 12 months. Students in the medical physics option usually take 21 to 24 months to complete the master's degree, which requires 40-42 credit hours. For a master's degree in health physics, a student must complete 42 hours of credit. If articulation work is required, it may take longer, depending upon the extent of the student's deficiency.

ENU 5142: Reliability and Risk Analysis for Nuclear Facilities

ENU 5176L: Principles of Nuclear Reactor Operations Laboratory

ENU 5186: Nuclear Fuel Cycles

ENU 5196: Nuclear Reactor Power Plant System Dynamics and Control

ENU 5516L: Nuclear Engineering Laboratory II

ENU 5615C: Nuclear Radiation Detection and Instrumentation

ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab

ENU 5626: Radiation Biology

ENU 5658: Imaging System Analysis with Medical Physics Applications

ENU 5705: Advanced Concepts for Nuclear Energy

ENU 6051: Radiation Interaction Basics and Applications I

ENU 6052: Radiation Transport Basics and Applications

ENU 6053: Radiation Interaction Basics and Applications II

ENU 6061: Survey of Medical Radiological Physics

ENU 6106: Nuclear Reactor Analysis I

ENU 6107: Nuclear Reactor Analysis II

ENU 6126: Fundamentals of Reactor Kinetics

ENU 6135: Nuclear Thermal Hydraulics

ENU 6623: Radiation Dosimetry

ENU 6627: Therapeutic Radiological Physics

ENU 6636: Medical Radiation Shielding & Protection

ENU 6651: Clinical Rotation in Radiation Therapy

ENU 6655: Advanced Diagnostic Radiological Physics

ENU 6659: Nuclear Medicine Instrumentation and Procedure

ENU 6835: Nuclear Fuels

ENU 6905: Individual Work

ENU 6910: Supervised Research

ENU 6935: Nuclear and Radiological Engineering Seminar

ENU 6936: Special Projects in Nuclear and Radiological Engineering Sciences

ENU 6937: Special Topics in Nuclear and Radiological Engineering Sciences

ENU 6971: Research for Master's Thesis

ENU 6972: Research for Engineer's Thesis

ENU 7979: Advanced Research

ENU 7980: Research for Doctoral Dissertation

Fall 2011 Critical Dates

Fall 2011

August 5, Friday, 5:00 p.m.

Deadline if requesting transfer of credit (for fall degree candidates).

August 18-19, Thursday-Friday, ends at 5:00 p.m. on Friday

Registration

August 22, Monday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed).

August 26, Friday, 11:59 p.m.

Drop/add ends.

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability.

September 2, Friday, 3:30 p.m.

Fee payment deadline.

Residency reclassification deadline for receiving the request and all documents.

September 5, Monday, Labor Day

No classes.

September 9, Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme.

September 16, Friday, 5:00 p.m.

Deadline to withdraw with 25% refund (W symbol assigned).

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Degree application deadline for degree award this term:
www.graduateschool.ufl.edu/files/graduation-checklist.pdf
<http://www.isis.ufl.edu/>

October 7, Friday, 5:00 p.m.

Last day to submit dissertation for review by Graduate School Editorial Office:
www.graduateschool.ufl.edu/files/checklist-dissertation.pdf

October 13, Thursday

Midpoint of term.

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants.

Late degree application deadline for degree award this term.

November 2, Wednesday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office.
graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students.

November 4-5, Friday - Saturday, Homecoming

No classes.

November 11, Friday, Veterans Day

No classes.

November 21, Monday

Last day to withdraw (all courses) without failing grades.
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

November 24-26, Thursday-Saturday, Thanksgiving

No classes.

December 2, Friday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students.

Deadline for theses and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term.

December 7, Wednesday

Classes end.

Deadline if requesting transfer of credit (for spring degree candidates).

December 8-9, Thursday-Friday

Examination reading days (no classes).

December 9, Friday, 5:00 p.m.

Deadline for theses and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term.
No exceptions can be granted.

December 10, Saturday, 12-16, Monday-Friday

Final examinations.

December 16, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript.

December 16-17, Friday-Saturday

Commencement.+

December 19, Monday, 12:00 noon

Final term grades are due.

December 20, Tuesday

Degree certification.

December 21, Wednesday

Unofficial transcripts with grades and remarks available 8:00 a.m. via ISIS.

NOTES: All dates and deadlines are subject to change and will be updated accordingly.
Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

[Spring 2012 Calendar](#)

[Summer 2012 Calendar](#)

[Expanded Academic Calendar 2011-2012](#)

Fall 2012 Academic Calendar**August 10, Friday, 5:00 p.m.**

Deadline if requesting transfer of credit (for fall degree candidates).

August 21, Tuesday, 5:00 p.m.

Registration

August 22, Wednesday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed).

August 28, Tuesday, 11:59 p.m.

Drop/add ends.

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability.

August 31, Friday, 3:30 p.m.

Fee payment deadline.

Residency reclassification deadline for receiving the request and all documents.

September 3, Monday, Labor Day

No classes.

September 7, Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme.

September 14, Friday, 5:00 p.m.

Deadline to withdraw with 25% refund (W symbol assigned).
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Degree application deadline for degree award this term:
www.graduateschool.ufl.edu/files/graduation-checklist.pdf
<http://www.isis.ufl.edu/>

October 5, Friday, 5:00 p.m.

Last day to submit dissertation for review by Graduate School Editorial Office:
www.graduateschool.ufl.edu/files/checklist-dissertation.pdf

October 11, Thursday

Midpoint of term.

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants.

Late degree application deadline for degree award this term.
<http://www.registrar.ufl.edu/currents/latdegreeinfo.html>

November 5, Monday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office.
[graduateschool.ufl.edu/files/checklist-thesis.pdf](http://www.graduateschool.ufl.edu/files/checklist-thesis.pdf)

Deadline for final exam forms to be posted to GIMS for thesis students.

November 9-10, Friday - Saturday, Homecoming

No classes.

November 12, Monday, Veterans Day, observed

No classes.

November 19, Monday

Last day to withdraw (all courses) without failing grades.
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

November 21-24, Wednesday-Saturday, Thanksgiving

No classes.

December 3, Monday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students.

Deadline for theses and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term.

December 5, Wednesday

Classes end.

Deadline if requesting transfer of credit (for spring degree candidates).

December 6-7, Thursday-Friday

Examination reading days (no classes).

December 8, Saturday, 10-14, Monday-Friday

Final examinations.

December 10, Monday, 5:00 p.m.

Deadline for theses and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term. No exceptions can be granted.

December 14, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript.

December 14-15, Friday-Saturday

Commencement.+

December 17, Monday, 12:00 noon

Final term grades are due.

December 18, Tuesday

Degree certification.

December 19, Wednesday

Unofficial transcripts with grades and remarks available 8:00 a.m. via ISIS.

NOTES: All dates and deadlines are subject to change and will be updated accordingly.
Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

Fall 2013 Calendar

August 2013

August 9, Friday, 5:00 p.m.

Deadline for requesting transfer of credit (for fall degree candidates)

August 20, Tuesday, 5:00 p.m.

Registration deadline

August 21, Wednesday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed after 5:00 p.m. on 8/20/13).

August 27, Tuesday, 11:59 p.m.

Drop/add ends.

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability

August 30, Friday, 3:30 p.m.

Fee payment deadline

Residency reclassification deadline for receiving the request and all documents

September 2013

September 2, Monday, Labor Day

No classes

September 6, Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

September 13, Friday, 5:00 p.m.

Deadline to withdraw with 25% refund (W symbol assigned)

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

Degree application deadline for degree award this term

www.graduateschool.ufl.edu/files/graduation-checklist.pdf

<http://www.isis.ufl.edu/>

October 2013

October 4, Friday, 5:00 p.m.

Last day to submit Transmittal Letter and dissertation for review by Graduate School Editorial Office

www.graduateschool.ufl.edu/files/checklist-dissertation.pdf

October 11, Friday

Midpoint of term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

Late degree application deadline for degree award this term

<http://www.registrar.ufl.edu/currents/latedegreeinfo.html>

November 2013

November 4, Monday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office

[graduateschool.ufl.edu/files/checklist-thesis.pdf](http://www.graduateschool.ufl.edu/files/checklist-thesis.pdf)

Deadline for final exam forms to be posted to GIMS for thesis students

November 8-9, Friday-Saturday, Homecoming

No classes

November 11, Monday, Veterans Day

No classes

November 25, Monday, 5:00 p.m.

Last day to withdraw (all courses) without failing grades via ISIS

<http://www.registrar.ufl.edu/currents/withdraw.html>

November 27-30, Wednesday-Saturday, Thanksgiving

No classes

December 2013

December 2, Monday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for ETD Signature Pages to be posted to GIMS for thesis and dissertation students

Deadline for thesis and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term
No exceptions can be granted.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>
www.graduateschool.ufl.edu/graduation/checklists

December 4, Wednesday

Classes end.

Deadline for requesting transfer of credit (for spring degree candidates)

December 5-6, Thursday-Friday

Examination reading days (no classes)

December 7, Saturday, 9-13, Monday-Friday

Final examinations

December 11, Wednesday, 5:00 p.m.

Deadline for thesis and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term
No exceptions can be granted.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

December 13, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades via College petition to the Registrar, Room 222 Criser

December 13-14, Friday-Saturday

Commencement Ceremonies+

December 16, Monday, 12:00 noon

Final term grades are due.

December 17, Tuesday

Degree certification

December 18, Wednesday

Unofficial transcripts with grades and remarks available via ISIS

NOTES: All dates and deadlines are subject to change and will be updated accordingly.
Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

Fall 2014 Calendar

August 2014

August 8, Friday, 5:00 p.m.

Deadline for requesting transfer of credit (for fall degree candidates)

August 22, Friday, 5:00 p.m.

Registration deadline

Last day for thesis and dissertation students to clear prior to the fall semester with the Graduate School Editorial Office.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

August 25, Monday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed after 5:00 p.m. on 8/22/14).

August 29, Friday, 11:59 p.m.

Drop/add ends.

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability

September 2014

September 1, Monday, Labor Day

No classes

September 5, Friday, 3:30 p.m.

Fee payment deadline

Residency reclassification deadline for receiving the request and all documents

September 12, Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

September 19, Friday, 5:00 p.m.

Deadline to withdraw with 25% refund (W symbol assigned)

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

Degree application deadline for degree award this term

www.graduateschool.ufl.edu/files/graduation-checklist.pdf

<http://www.isis.ufl.edu/>

October 2014

October 3, Friday, 5:00 p.m.

Last day to submit Transmittal Letter and dissertation for initial review by Graduate School Editorial Office

www.graduateschool.ufl.edu/files/checklist-dissertation.pdf

October 10, Friday

Midpoint of term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

Late degree application deadline for degree award this term

<http://www.registrar.ufl.edu/currents/latedegreeinfo.html>

October 17-18, Friday-Saturday, Homecoming

No classes

November 2014**November 3, Monday, 5:00 p.m.**

Last day to submit successfully defended thesis for review by Graduate School Editorial Office
graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students

November 11, Tuesday, Veterans Day

No classes

November 24, Monday, 5:00 p.m.

Last day to withdraw (all courses) without failing grades via ISIS
<http://www.registrar.ufl.edu/currents/withdraw.html>

November 26-29, Wednesday-Saturday, Thanksgiving

No classes

December 2014**December 1, Monday, 5:00 p.m.**

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for ETD Signature Pages to be posted to GIMS for thesis and dissertation students

Deadline for thesis and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term
No exceptions can be granted.
<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>
www.graduateschool.ufl.edu/graduation/checklists

December 10, Wednesday

Classes end.

Deadline for requesting transfer of credit (for spring degree candidates)

December 10, Wednesday, 5:00 p.m.

Deadline for thesis and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term
No exceptions can be granted.
<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

December 11-12, Thursday-Friday

Examination reading days (no classes)

December 13, Saturday, 15-19, Monday-Friday

Final examinations

December 19, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades via College petition to the Registrar, Room 222 Criser

December 19-20, Friday-Saturday

Commencement Ceremonies+

December 22, Monday, 12:00 noon

Final term grades are due.

December 23, Tuesday

Degree certification

December 24, Wednesday

Unofficial transcripts with grades and remarks available via ISIS

**NOTES: All dates and deadlines are subject to change and will be updated accordingly.
Prospective students should contact the appropriate academic unit for admission application deadlines.**

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

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Purpose and Mission of the University

The University of Florida is a public land-grant, sea-grant and space-grant research university, one of the most comprehensive in the United States. The university encompasses virtually all academic and professional disciplines. It is the largest and oldest of Florida's eleven universities, a member of the Association of American Universities and has high national rankings by academic assessment institutions. Its faculty and staff are dedicated to the common pursuit of the university's threefold mission: teaching, research and service.

The University of Florida belongs to a tradition of great universities. Together with its undergraduate and graduate students, UF faculty participate in an educational process that links the history of Western Europe with the traditions and cultures of all societies, explores the physical and biological universes and nurtures generations of young people from diverse backgrounds to address the needs of the world's societies. The university welcomes the full exploration of its intellectual boundaries and supports its faculty and students in the creation of new knowledge and the pursuit of new ideas.

Teaching is a fundamental purpose of this university at both the undergraduate and graduate levels. Research and scholarship are integral to the educational process and to the expansion of our understanding of the natural world, the intellect and the senses. Service reflects the university's obligation to share the benefits of its research and knowledge for the public good.

The university serves the nation's and the state's critical needs by contributing to a well-qualified and broadly diverse citizenry, leadership and workforce. The University of Florida must create the broadly diverse environment necessary to foster multi-cultural skills and perspectives in its teaching and research for its students to contribute and succeed in the world of the 21st century.

These three interlocking elements—teaching, research and scholarship, and service—span all the university's academic disciplines and represent the university's commitment to lead and serve the state of Florida, the nation and the world by pursuing and disseminating new knowledge while building upon the experiences of the past. The university aspires to advance by strengthening the human condition and improving the quality of life.

Vision, Mission, and Values of the University of Florida Graduate School

Vision

The Graduate School is the umbrella administrative unit that guides all graduate programs at the University of Florida, thereby allowing students to reach their educational potential with a focus on contributions to the state of Florida, the nation, and the world.

Mission

The University of Florida Graduate School is committed to ensuring that every graduate student obtains the best possible educational and research experiences, is supported by committed Graduate Faculty and can complete their degrees in a reasonable time. Policies and procedures developed by the Graduate School are intended to uphold the highest academic standards without restricting student successes in scientific, scholarly, creative, and professional arenas. The Graduate School provides administrative services to help coordinate, educate, and collaborate with the university community in all aspects of graduate education.

Values

Members of the Graduate School and graduate community value

- High academic standards
- Ethical conduct of scholarship and research
- Creating, archiving and transmitting knowledge and beauty in word, thought and the arts that enhance the human experience
- Desire for life-long learning
- Diversity
- Commitment to advance the health, education, and well-being of citizens throughout the world

Graduate Degrees Offered by the University of Florida

Master of Accounting (MAcc.)^N
Accounting^N

Master of Advertising (MAdv.)^T
Advertising^T

Master of Agribusiness (MAB.)^N
Food and Resource Economics^N
Tropical Conservation and Development^N

Master of Architecture (MArch.)^T
Architecture^T
Historic Preservation^T
Sustainable Architecture^T

Sustainable Design^T**Master of Arts (MA.)^{T/N}**Anthropology^{T/N}Historic Preservation^{T/N}Tropical Conservation and Development^{T/N}Art^TDigital Arts and Sciences^TArt Education^{T/N}Art History^TArts in Medicine^NBusiness Administration^{T/N}Marketing^{T/N}Classical Studies^TCommunication Sciences and Disorders^{T/N}Criminology, Law, and Society^{T/N}Digital Arts and Sciences^TEconomics^{T/N}English^{T/N}French and Francophone Studies^{T/N}Geography^TApplications of Geographic Technologies^TGeographic Information Systems^TTropical Conservation and Development^TWetland Sciences^TGerman^{T/N}History^{T/N}Historic Preservation^{T/N}Jewish Studies^{T/N}International Business^{T/N}Latin^TLatin American Studies^TTropical Conservation and Development^TLinguistics^{T/N}Mathematics^{T/N}Museology^THistoric Preservation^TPhilosophy^{T/N}Political Science - International Relations^{T/N}Political Science^{T/N}International Development Policy and Administration^{T/N}Political Campaigning^{T/N}Public Affairs^{T/N}Tropical Conservation and Development^{T/N}Psychology^{T/N}Religion^{T/N}Jewish Studies^{T/N}Tropical Conservation and Development^{T/N}Women's/Gender Studies^{T/N}Sociology^{T/N}Tropical Conservation and Development^{T/N}Spanish^{T/N}Women's Studies^{T/N}**Master of Arts in Education (M.A.E.)^T**Curriculum and Instruction^TEarly Childhood Education^TEducational Leadership^TElementary Education^TEnglish Education^TMarriage and Family Counseling^TMathematics Education^TMental Health Counseling^TReading Education^TResearch and Evaluation Methodology^TSchool Counseling and Guidance^TSchool Psychology^TScience Education^TSocial Studies Education^TSpecial Education^TStudent Personnel in Higher Education^T**Master of Arts in Mass Communication (M.A.M.C.)^{T/N}**Mass Communication^{T/N}**Master of Arts in Teaching (M.A.T.)^N**

Anthropology^N
 Tropical Conservation and Development^N
 French and Francophone Studies^N
 Latin^N
 Latin American Studies^N
 Tropical Conservation and Development^N
 Mathematics^N
 Philosophy^N
 Political Science - International Relations^N
 Spanish^N

Master of Arts in Urban and Regional Planning (MAURP.)^T

Urban and Regional Planning^T
 Geographic Information Systems^T
 Historic Preservation^T
 Sustainable Design^T
 Tropical Conservation and Development^T
 Wetland Sciences^T

Master of Business Administration (M.B.A.)^N

Business Administration^N
 Competitive Strategy^N
 Entrepreneurship^N
 Finance^N
 Global Management^N
 Graham-Buffett Security Analysis^N
 Human Resource Management^N
 Information Systems and Operations Management^N
 International Studies^N
 Latin American Business^N
 Management^N
 Marketing^N
 Real Estate^N
 Sports Administration^N

Master of Construction Management (M.C.M.)^N

Construction Management^N
 Historic Preservation^N
 Sustainable Construction^N
 Sustainable Design^N

Master of Education (M.Ed.)^N

Curriculum and Instruction^N
 Early Childhood Education^N
 Educational Leadership^N
 Elementary Education^N
 English Education^N
 Marriage and Family Counseling^N
 Mathematics Education^N
 Mental Health Counseling^N
 Reading Education^N
 Research and Evaluation Methodology^N
 School Counseling and Guidance^N
 School Psychology^N
 Science Education^N
 Social Studies Education^N
 Special Education^N
 Student Personnel in Higher Education^N

Master of Engineering (M.E.)^{T/N}

Aerospace Engineering^{T/N}
 Agricultural and Biological Engineering^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Biomedical Engineering^{T/N}
 Chemical Engineering^{T/N}
 Civil Engineering^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Coastal and Oceanographic Engineering^{T/N}
 Computer Engineering^{T/N}
 Electrical and Computer Engineering^{T/N}
 Environmental Engineering Sciences^{T/N}
 Geographic Information Systems^{T/N}

Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Industrial and Systems Engineering^{T/N}
 Materials Science and Engineering^{T/N}
 Mechanical Engineering^{T/N}
 Nuclear Engineering Sciences^{T/N}

Master of Fine Arts (M.F.A.)^T

Art^T
 Creative Writing^T
 Theatre^T

Master of Fire and Emergency Services (M.F.E.S.)^N

Fire and Emergency Services^N

Master of Fisheries and Aquatic Sciences (M.F.A.S.)^N

Fisheries and Aquatic Sciences^N
 Ecological Restoration^N
 Geographic Information Systems^N
 Natural Resource Policy and Administration^N
 Wetland Sciences^N

Master of Forest Resources and Conservation (M.F.R.C.)^N

Forest Resources and Conservation^N
 Agroforestry^N
 Ecological Restoration^N
 Geographic Information Systems^N
 Geomatics^N
 Natural Resource Policy and Administration^N
 Tropical Conservation and Development^N
 Wetland Sciences^N

Master of Health Administration (M.H.A.)^N

Health Administration^N

Master of Health Science (M.H.S.)^{T/N}

Environmental and Global Health^N
 One Health^N
 Occupational Therapy^{T/N}

Master of Historic Preservation (M.H.P.)^T

Historic Preservation^T

Master of Interior Design (M.I.D.)^T

Interior Design^T
 Historic Preservation^T
 Sustainable Design^T

Master of International Business (M.I.B.)^N

International Business^N

Master of International Construction Management (M.I.C.M.)^N

International Construction Management^N
 Historic Preservation^N

Master of Landscape Architecture (M.L.A.)^T

Landscape Architecture^T
 Geographic Information Systems^T
 Historic Preservation^T
 Sustainable Design^T
 Wetland Sciences^T

Master of Latin (M.L.)^N

Latin^N

Master of Laws in Comparative Law (LL.M.Comp.Law)^N

Comparative Law^N
 Tropical Conservation and Development^N

Master of Laws in Environmental and Land Use Law (LL.M.ELU.)^N

Environmental and Land Use Law^N

Master of Laws in International Taxation (LL.M.Int)^N

International Taxation^N

Master of Laws in Taxation (LL.M.Tax.)^N

Taxation^N

Master of Music (M.M.)^{T/N}Music^T

Choral Conducting^T
 Composition^T
 Electronic Music^T
 Ethnomusicology^T
 Instrumental Conducting^T
 Music Education^T
 Music History and Literature^T
 Music Theory^T
 Performance^T
 Sacred Music^T

Music Education^{T/N}

Choral Conducting^{T/N}
 Composition^{T/N}
 Electronic Music^{T/N}
 Ethnomusicology^{T/N}
 Instrumental Conducting^{T/N}
 Music History and Literature^{T/N}
 Music Theory^{T/N}
 Performance^{T/N}
 Piano Pedagogy^{T/N}

Master of Occupational Therapy (M.O.T.)^NOccupational Therapy^N**Master of Public Health (M.P.H.)^N**Public Health^N

Biostatistics^N
 Environmental Health^N
 Epidemiology^N
 Health Management and Policy^N
 Public Health Practice^N
 Social and Behavioral Sciences^N

Master of Science (M.S.)^{T/N}Aerospace Engineering^{T/N}Agricultural and Biological Engineering^{T/N}

Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}

Agricultural Education and Communication^{T/N}

Tropical Conservation and Development^{T/N}

Agronomy^{T/N}

Agroecology^{T/N}
 Geographic Information Systems^T
 Tropical Conservation and Development^{T/N}

Animal Molecular and Cellular Biology^TAnimal Sciences^{T/N}Applied Physiology and Kinesiology^{T/N}

Athletic Training/Sports Medicine^{T/N}
 Biobehavioral Science^{T/N}
 Clinical Exercise Physiology^{T/N}
 Exercise Physiology^{T/N}
 Human Performance^{T/N}

Astronomy^{T/N}Biochemistry and Molecular Biology^TBiomedical Engineering^{T/N}

Medical Physics^{T/N}

Biostatistics^NBotany^T

Tropical Conservation and Development^T
 Wetland Sciences^T

Business Administration^{T/N}

Marketing^{T/N}
 Retailing^{T/N}

Chemical Engineering^{T/N}Chemistry^{T/N}Civil Engineering^{T/N}

Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}

Coastal and Oceanographic Engineering^{T/N}Computer Engineering^{T/N}

Digital Arts and Sciences^{T/N}

Computer Sciences^{T/N}
 Dental Sciences^T
 Endodontics^T
 Orthodontics^T
 Periodontics^T
 Prosthodontics^T
 Digital Arts and Sciences^T
 Electrical and Computer Engineering^{T/N}
 Entomology and Nematology^{T/N}
 Entrepreneurship^{T/N}
 Environmental Engineering Sciences^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Epidemiology^T
 Biostatistics^T
 Health Management and Policy^T
 Family, Youth and Community Sciences^{T/N}
 Community Studies^{T/N}
 Family and Youth Development^{T/N}
 Nonprofit Organization Development^{T/N}
 Finance^{T/N}
 Fisheries and Aquatic Sciences^T
 Ecological Restoration^T
 Geographic Information Systems^T
 Natural Resource Policy and Administration^T
 Wetland Sciences^T
 Food and Resource Economics^{T/N}
 Agribusiness^{T/N}
 Hydrologic Sciences^{T/N}
 Toxicology^{T/N}
 Tropical Conservation and Development^{T/N}
 Food Science and Human Nutrition^{T/N}
 Nutritional Sciences^{T/N}
 Forest Resources and Conservation^{T/N}
 Agroforestry^{T/N}
 Ecological Restoration^{T/N}
 Geographic Information Systems^{T/N}
 Geomatics^{T/N}
 Hydrologic Sciences^{T/N}
 Natural Resource Policy and Administration^{T/N}
 Tropical Conservation and Development^{T/N}
 Wetland Sciences^{T/N}
 Geography^T
 Applications of Geographic Technologies^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Geology^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Health Education and Behavior^{T/N}
 Horticultural Sciences^{T/N}
 Environmental Horticulture^{T/N}
 Horticultural Sciences^{T/N}
 Industrial and Systems Engineering^{T/N}
 Information Systems and Operations Management^{T/N}
 Supply Chain Management^{T/N}
 Interdisciplinary Ecology^{T/N}
 Agricultural and Biological Engineering^{T/N}
 Agricultural Education and Communication^{T/N}
 Agronomy^{T/N}
 Anthropology^{T/N}
 Architecture^{T/N}
 Biochemistry and Molecular Biology^{T/N}
 Botany^{T/N}
 Business Administration^{T/N}
 Chemistry^{T/N}
 Civil Engineering^{T/N}
 Climate Science^{T/N}
 Coastal and Oceanographic Engineering^{T/N}
 Economics^{T/N}
 English^{T/N}

Entomology and Nematology^{T/N}
 Environmental Engineering Sciences^{T/N}
 Family, Youth and Community Sciences^{T/N}
 Farming Systems^{T/N}
 Fisheries and Aquatic Sciences^{T/N}
 Food and Resource Economics^{T/N}
 Food Science^{T/N}
 Forest Resources and Conservation^{T/N}
 Foundations of Education^{T/N}
 Geographic Information Systems^{T/N}
 Geography^{T/N}
 Geology^{T/N}
 Health and Human Performance^{T/N}
 Horticultural Sciences^{T/N}
 Hydrologic Sciences^{T/N}
 Landscape Architecture^{T/N}
 Mathematics^{T/N}
 Microbiology and Cell Science^{T/N}
 Nuclear and Radiological Engineering^{T/N}
 Philosophy^{T/N}
 Political Science^{T/N}
 Religion^{T/N}
 Sociology^{T/N}
 Soil and Water Science^{T/N}
 Statistics^{T/N}
 Tropical Conservation and Development^{T/N}
 Urban and Regional Planning^{T/N}
 Veterinary Medical Sciences^{T/N}
 Wetland Sciences^{T/N}
 Wildlife Ecology And Conservation^{T/N}
 Women's/Gender Studies^{T/N}
 Zoology^{T/N}
 Management^{T/N}
 Health Care Risk Management^{T/N}
 Materials Science and Engineering^{T/N}
 Mathematics^{T/N}
 Mechanical Engineering^{T/N}
 Medical Sciences^T
 Aging and Geriatric Practice^T
 Clinical and Translational Science^T
 Health Outcomes and Policy^T
 Translational Biotechnology^T
 Microbiology and Cell Science^{T/N}
 Medical Microbiology and Biochemistry^{T/N}
 Nuclear Engineering Sciences^{T/N}
 Physics^{T/N}
 Plant Molecular and Cellular Biology^T
 Plant Pathology^{T/N}
 Psychology^{T/N}
 Real Estate^{T/N}
 Recreation, Parks, and Tourism^{T/N}
 Historic Preservation^{T/N}
 Natural Resource Recreation^{T/N}
 Therapeutic Recreation^{T/N}
 Tourism^{T/N}
 Tropical Conservation and Development^{T/N}
 Soil and Water Science^{T/N}
 Agroecology^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Tropical Conservation and Development^{T/N}
 Wetland Sciences^{T/N}
 Sport Management^{T/N}
 Historic Preservation^{T/N}
 Tropical Conservation and Development^{T/N}
 Veterinary Medical Sciences^{T/N}
 Forensic Toxicology^{T/N}
 Shelter Medicine^{T/N}
 Veterinary Forensic Sciences^{T/N}
 Wildlife Ecology and Conservation^{T/N}
 Geographic Information Systems^{T/N}
 Tropical Conservation and Development^{T/N}
 Wetland Sciences^{T/N}
 Zoology^{T/N}
 Tropical Conservation and Development^{T/N}

Wetland Sciences^{T/N}**Master of Science in Architectural Studies (M.S.A.S.)^T**Architecture^THistoric Preservation^TSustainable Architecture^TSustainable Design^T**Master of Science in Construction Management (M.S.C.M)^T**Construction Management^THistoric Preservation^TSustainable Construction^TSustainable Design^T**Master of Science in Entrepreneurship (M.S.E.N.T)^N**Entrepreneurship^N**Master of Science in Information Systems and Operations Management (M.S.I.S.O.M)^N**Information Systems and Operations Management^NSupply Chain Management^N**Master of Science in Nursing (M.S.Nsg.)^{T/N}**Nursing^{T/N}**Master of Science in Pharmacy (M.S.P.)^{T/N}**Pharmaceutical Sciences^{T/N}Clinical Pharmacy^{T/N}Clinical Toxicology^{T/N}Forensic DNA and Serology^{T/N}Forensic Drug Chemistry^{T/N}Forensic Science^{T/N}Medication Therapy Management^{T/N}Medicinal Chemistry^{T/N}Pharmaceutical Chemistry^{T/N}Pharmaceutical Outcomes and Policy^{T/N}Pharmacodynamics^{T/N}Pharmacy^{T/N}**Master of Science in Statistics (M.S.Stat.)^T**Statistics^T**Master of Science in Teaching (M.S.T.)^N**Astronomy^NBotany^NTropical Conservation and Development^NWetland Sciences^NChemistry^NGeography^NGeographic Information Systems^NTropical Conservation and Development^NWetland Sciences^NGeology^NTropical Conservation and Development^NWetland Sciences^NMathematics^NPhysics^NZoology^NTropical Conservation and Development^NWetland Sciences^N**Master of Statistics (M.Stat.)^N**Statistics^N**Master of Sustainable Development Practice (M.D.P.)^N**Sustainable Development Practice^N**Engineer (Engr.)^{T/N}**Chemical Engineering^{T/N}Industrial and Systems Engineering^{T/N}**Specialist in Education (Ed.S.)^N**Curriculum and Instruction^NEducational Leadership^NHigher Education Administration^NMarriage and Family Counseling^NMental Health Counseling^NResearch and Evaluation Methodology^N

School Counseling and Guidance^N
 School Psychology^N
 Special Education^N
 Student Personnel in Higher Education^N

Doctor of Audiology (Au.D.)^N

Audiology^N

Doctor of Education (Ed.D.)^T

Counseling and Counselor Education^T
 Marriage and Family Counseling^T
 Mental Health Counseling^T
 School Counseling and Guidance^T
 Curriculum and Instruction^T
 Educational Leadership^T
 Educational Policy^T
 Higher Education Administration^T
 Educational Policy^T
 Marriage and Family Counseling^T
 Mental Health Counseling^T
 Research and Evaluation Methodology^T
 School Counseling and Guidance^T
 School Psychology^T
 Special Education^T

Doctor of Philosophy (Ph.D.)^T

Aerospace Engineering^T
 Agricultural and Biological Engineering^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Wetland Sciences^T
 Agricultural Education and Communication^T
 Tropical Conservation and Development^T
 Agronomy^T
 Toxicology^T
 Tropical Conservation and Development^T
 Animal Molecular and Cellular Biology^T
 Animal Sciences^T
 Animal Molecular and Cellular Biology^T
 Anthropology^T
 Historic Preservation^T
 Tropical Conservation and Development^T
 Women's/Gender Studies^T
 Art History^T
 Astronomy^T
 Biochemistry and Molecular Biology^T
 Animal Molecular and Cellular Biology^T
 Imaging Science and Technology^T
 Mammalian Genetics^T
 Toxicology^T
 Biomedical Engineering^T
 Clinical and Translational Science^T
 Medical Physics^T
 Biostatistics^T
 Botany^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Business Administration^T
 Accounting^T
 Finance^T
 Information Systems and Operations Management^T
 Insurance^T
 Management^T
 Marketing^T
 Quantitative Finance^T
 Real Estate and Urban Analysis^T
 Chemical Engineering^T
 Chemistry^T
 Clinical and Translational Science^T
 Imaging Science and Technology^T
 Civil Engineering^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Wetland Sciences^T
 Classical Studies^T
 Coastal and Oceanographic Engineering^T

Communication Sciences and Disorders^T
 Computer Engineering^T
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 Mental Health Counseling^T
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 Wetland Sciences^T
 Epidemiology^T
 Clinical and Translational Science^T
 Fisheries and Aquatic Sciences^T
 Ecological Restoration^T
 Geographic Information Systems^T
 Natural Resource Policy and Administration^T
 Wetland Sciences^T
 Food and Resource Economics^T
 Hydrologic Sciences^T
 Toxicology^T
 Tropical Conservation and Development^T
 Food Science^T
 Toxicology^T
 Forest Resources and Conservation^T
 Agroforestry^T
 Geographic Information Systems^T
 Geomatics^T
 Hydrologic Sciences^T
 Natural Resource Policy and Administration^T
 Toxicology^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Genetics and Genomics^T
 Clinical and Translational Science^T
 Geography^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Geology^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 German^T
 Women's/Gender Studies^T
 Health and Human Performance^T
 Applied Physiology and Kinesiology^T
 Biobehavioral Science^T
 Clinical and Translational Science^T
 Exercise Physiology^T
 Health Behavior^T
 Historic Preservation^T
 Recreation, Parks, and Tourism^T
 Sport Management^T
 Health Services Research^T
 Higher Education Administration^T
 Educational Policy^T
 History^T
 Historic Preservation^T
 Women's/Gender Studies^T

Horticultural Sciences^T
 Environmental Horticulture^T
 Horticultural Sciences^T
 Toxicology^T
 Industrial and Systems Engineering^T
 Quantitative Finance^T
 Interdisciplinary Ecology^T
 Agricultural and Biological Engineering^T
 Agricultural Education and Communication^T
 Agronomy^T
 Anthropology^T
 Architecture^T
 Biochemistry and Molecular Biology^T
 Botany^T
 Business Administration^T
 Chemistry^T
 Civil Engineering^T
 Climate Science^T
 Coastal and Oceanographic Engineering^T
 Economics^T
 English^T
 Entomology and Nematology^T
 Environmental Engineering Sciences^T
 Family, Youth and Community Sciences^T
 Farming Systems^T
 Fisheries and Aquatic Sciences^T
 Food and Resource Economics^T
 Food Science^T
 Forest Resources and Conservation^T
 Foundations of Education^T
 Geographic Information Systems^T
 Geography^T
 Geology^T
 Health and Human Performance^T
 Horticultural Sciences^T
 Hydrologic Sciences^T
 Landscape Architecture^T
 Mathematics^T
 Microbiology and Cell Science^T
 Nuclear and Radiological Engineering^T
 Philosophy^T
 Political Science^T
 Religion^T
 Sociology^T
 Soil and Water Science^T
 Statistics^T
 Tropical Conservation and Development^T
 Urban and Regional Planning^T
 Veterinary Medical Sciences^T
 Wetland Sciences^T
 Wildlife Ecology And Conservation^T
 Women's/Gender Studies^T
 Zoology^T
 Linguistics^T
 Marriage and Family Counseling^T
 Mass Communication^T
 Clinical and Translational Science^T
 Materials Science and Engineering^T
 Clinical and Translational Science^T
 Mathematics^T
 Imaging Science and Technology^T
 Quantitative Finance^T
 Mechanical Engineering^T
 Medical Sciences^T
 Biochemistry and Molecular Biology^T
 Clinical and Translational Science^T
 Genetics^T
 Health Outcomes and Policy^T
 Imaging Science and Technology^T
 Immunology and Microbiology^T
 Molecular Cell Biology^T
 Neuroscience^T
 Physiology and Pharmacology^T
 Toxicology^T
 Mental Health Counseling^T

- Microbiology and Cell Science^T
 - Toxicology^T
- Music^T
 - Composition^T
 - Music History and Literature^T
- Music Education^T
- Nuclear Engineering Sciences^T
 - Imaging Science and Technology^T
- Nursing Sciences^T
 - Clinical and Translational Science^T
- Nutritional Sciences^T
 - Clinical and Translational Science^T
- Pharmaceutical Sciences^T
 - Clinical and Translational Science^T
 - Clinical Pharmaceutical Sciences^T
 - Medicinal Chemistry^T
 - Pharmaceutical Outcomes and Policy^T
 - Pharmacodynamics^T
 - Pharmacy^T
 - Toxicology^T
- Philosophy^T
- Physics^T
 - Imaging Science and Technology^T
- Plant Molecular and Cellular Biology^T
 - Toxicology^T
- Plant Pathology^T
 - Toxicology^T
- Political Science^T
 - Educational Policy^T
 - Tropical Conservation and Development^T
- Psychology^T
 - Clinical and Health Psychology^T
 - Clinical and Translational Science^T
 - Women's/Gender Studies^T
- Public Health^T
 - Environmental Health^T
 - One Health^T
 - Social and Behavioral Sciences^T
- Rehabilitation Science^T
 - Clinical and Translational Science^T
- Religion^T
 - Tropical Conservation and Development^T
 - Women's/Gender Studies^T
- Research and Evaluation Methodology^T
- Romance Languages^T
 - French and Francophone Studies^T
 - Spanish^T
- School Counseling and Guidance^T
- School Psychology^T
- Sociology^T
 - Tropical Conservation and Development^T
 - Women's/Gender Studies^T
- Soil and Water Science^T
 - Geographic Information Systems^T
 - Hydrologic Sciences^T
 - Tropical Conservation and Development^T
 - Wetland Sciences^T
- Special Education^T
- Statistics^T
 - Quantitative Finance^T
- Veterinary Medical Sciences^T
 - Animal Molecular and Cellular Biology^T
 - Clinical and Translational Science^T
 - Toxicology^T
- Wildlife Ecology and Conservation^T
 - Geographic Information Systems^T
 - Tropical Conservation and Development^T
 - Wetland Sciences^T
- Zoology^T
 - Animal Molecular and Cellular Biology^T
 - Tropical Conservation and Development^T
 - Wetland Sciences^T

Doctor of Plant Medicine (D.P.M.)^N

- Plant Medicine^N

Tropical Conservation and Development^N

Graduate Degrees Table

| Degree | Major | Concentration |
|-------------------------------|-------|---------------|
| Master of Accounting (M.Acc.) | | |

Graduate Degrees Table

| Degree | Major | Concentration |
|-------------------------------|-------|---------------|
| Master of Accounting (M.Acc.) | | |

Graduate Degrees Table

Listing of Degrees and Programs

See [the Majors Section of this catalog](#) for specializations in the approved programs.

T=thesis or dissertation N=non-thesis or no dissertation. Degree names and correct abbreviations are listed in bold. Possible majors (if different than the degree name) are listed in normal type.

Possible concentrations that are not interdisciplinary are listed under the major in italics. Interdisciplinary concentrations can be found in the [Interdisciplinary Concentrations](#) section of this catalog.

Master of Accounting (MAcc.)^N
Accounting^N

Master of Advertising (MAdv.)^T
Advertising^T

Master of Agribusiness (MAB.)^N
Food and Resource Economics^N
Tropical Conservation and Development^N

Master of Architecture (MArch.)^T
Architecture^T
Historic Preservation^T

Sustainable Architecture^TSustainable Design^T**Master of Arts (M.A.)^{T/N}**Anthropology^{T/N}Historic Preservation^{T/N}Tropical Conservation and Development^{T/N}Art^TDigital Arts and Sciences^TArt Education^{T/N}Art History^TArts in Medicine^NBusiness Administration^{T/N}Marketing^{T/N}Classical Studies^TCommunication Sciences and Disorders^{T/N}Criminology, Law, and Society^{T/N}Digital Arts and Sciences^TEconomics^{T/N}English^{T/N}French and Francophone Studies^{T/N}Geography^TApplications of Geographic Technologies^TGeographic Information Systems^TTropical Conservation and Development^TWetland Sciences^TGerman^{T/N}History^{T/N}Historic Preservation^{T/N}Jewish Studies^{T/N}International Business^{T/N}Latin^TLatin American Studies^TTropical Conservation and Development^TLinguistics^{T/N}Mathematics^{T/N}Museology^THistoric Preservation^TPhilosophy^{T/N}Political Science - International Relations^{T/N}Political Science^{T/N}International Development Policy and Administration^{T/N}Political Campaigning^{T/N}Public Affairs^{T/N}Tropical Conservation and Development^{T/N}Psychology^{T/N}Religion^{T/N}Jewish Studies^{T/N}Tropical Conservation and Development^{T/N}Women's/Gender Studies^{T/N}Sociology^{T/N}Tropical Conservation and Development^{T/N}Spanish^{T/N}Women's Studies^{T/N}**Master of Arts in Education (M.A.E.)^T**Curriculum and Instruction^TEarly Childhood Education^TEducational Leadership^TElementary Education^TEnglish Education^TMarriage and Family Counseling^TMathematics Education^TMental Health Counseling^TReading Education^TResearch and Evaluation Methodology^TSchool Counseling and Guidance^TSchool Psychology^TScience Education^TSocial Studies Education^TSpecial Education^TStudent Personnel in Higher Education^T**Master of Arts in Mass Communication (M.A.M.C.)^{T/N}**Mass Communication^{T/N}

Master of Arts in Teaching (M.A.T.)^N

Anthropology^N
 Tropical Conservation and Development^N
 French and Francophone Studies^N
 Latin^N
 Latin American Studies^N
 Tropical Conservation and Development^N
 Mathematics^N
 Philosophy^N
 Political Science - International Relations^N
 Spanish^N

Master of Arts in Urban and Regional Planning (MAURP.)^T

Urban and Regional Planning^T
 Geographic Information Systems^T
 Historic Preservation^T
 Sustainable Design^T
 Tropical Conservation and Development^T
 Wetland Sciences^T

Master of Business Administration (M.B.A.)^N

Business Administration^N
 Competitive Strategy^N
 Entrepreneurship^N
 Finance^N
 Global Management^N
 Graham-Buffett Security Analysis^N
 Human Resource Management^N
 Information Systems and Operations Management^N
 International Studies^N
 Latin American Business^N
 Management^N
 Marketing^N
 Real Estate^N
 Sports Administration^N

Master of Construction Management (M.C.M.)^N

Construction Management^N
 Historic Preservation^N
 Sustainable Construction^N
 Sustainable Design^N

Master of Education (M.Ed.)^N

Curriculum and Instruction^N
 Early Childhood Education^N
 Educational Leadership^N
 Elementary Education^N
 English Education^N
 Marriage and Family Counseling^N
 Mathematics Education^N
 Mental Health Counseling^N
 Reading Education^N
 Research and Evaluation Methodology^N
 School Counseling and Guidance^N
 School Psychology^N
 Science Education^N
 Social Studies Education^N
 Special Education^N
 Student Personnel in Higher Education^N

Master of Engineering (M.E.)^{T/N}

Aerospace Engineering^{T/N}
 Agricultural and Biological Engineering^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Biomedical Engineering^{T/N}
 Chemical Engineering^{T/N}
 Civil Engineering^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Coastal and Oceanographic Engineering^{T/N}
 Computer Engineering^{T/N}
 Electrical and Computer Engineering^{T/N}
 Environmental Engineering Sciences^{T/N}

Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Industrial and Systems Engineering^{T/N}
 Materials Science and Engineering^{T/N}
 Mechanical Engineering^{T/N}
 Nuclear Engineering Sciences^{T/N}

Master of Fine Arts (M.F.A.)^T

Art^T
 Creative Writing^T
 Theatre^T

Master of Fire and Emergency Services (M.F.E.S.)^N

Fire and Emergency Services^N

Master of Fisheries and Aquatic Sciences (M.F.A.S.)^N

Fisheries and Aquatic Sciences^N
 Ecological Restoration^N
 Geographic Information Systems^N
 Natural Resource Policy and Administration^N
 Wetland Sciences^N

Master of Forest Resources and Conservation (M.F.R.C.)^N

Forest Resources and Conservation^N
 Agroforestry^N
 Ecological Restoration^N
 Geographic Information Systems^N
 Geomatics^N
 Natural Resource Policy and Administration^N
 Tropical Conservation and Development^N
 Wetland Sciences^N

Master of Health Administration (M.H.A.)^N

Health Administration^N

Master of Health Science (M.H.S.)^{T/N}

Environmental and Global Health^N
 One Health^N
 Occupational Therapy^{T/N}

Master of Historic Preservation (M.H.P.)^T

Historic Preservation^T

Master of Interior Design (M.I.D.)^T

Interior Design^T
 Historic Preservation^T
 Sustainable Design^T

Master of International Business (M.I.B.)^N

International Business^N

Master of International Construction Management (M.I.C.M.)^N

International Construction Management^N
 Historic Preservation^N

Master of Landscape Architecture (M.L.A.)^T

Landscape Architecture^T
 Geographic Information Systems^T
 Historic Preservation^T
 Sustainable Design^T
 Wetland Sciences^T

Master of Latin (M.L.)^N

Latin^N

Master of Laws in Comparative Law (LL.M.Comp.Law)^N

Comparative Law^N
 Tropical Conservation and Development^N

Master of Laws in Environmental and Land Use Law (LL.M.EL.U.)^N

Environmental and Land Use Law^N

Master of Laws in International Taxation (LL.M.Int)^N

International Taxation^N

Master of Laws in Taxation (LL.M.Tax.)^N

Taxation^N

Master of Music (M.M.)^{T/N}

Music^T

Choral Conducting^T

Composition^T

Electronic Music^T

Ethnomusicology^T

Instrumental Conducting^T

Music Education^T

Music History and Literature^T

Music Theory^T

Performance^T

Sacred Music^T

Music Education^{T/N}

Choral Conducting^{T/N}

Composition^{T/N}

Electronic Music^{T/N}

Ethnomusicology^{T/N}

Instrumental Conducting^{T/N}

Music History and Literature^{T/N}

Music Theory^{T/N}

Performance^{T/N}

Piano Pedagogy^{T/N}

Master of Occupational Therapy (M.O.T.)^N

Occupational Therapy^N

Master of Public Health (M.P.H.)^N

Public Health^N

Biostatistics^N

Environmental Health^N

Epidemiology^N

Health Management and Policy^N

Public Health Practice^N

Social and Behavioral Sciences^N

Master of Science (M.S.)^{T/N}

Aerospace Engineering^{T/N}

Agricultural and Biological Engineering^{T/N}

Geographic Information Systems^{T/N}

Hydrologic Sciences^{T/N}

Wetland Sciences^{T/N}

Agricultural Education and Communication^{T/N}

Tropical Conservation and Development^{T/N}

Agonomy^{T/N}

Agroecology^{T/N}

Geographic Information Systems^T

Tropical Conservation and Development^{T/N}

Animal Molecular and Cellular Biology^T

Animal Sciences^{T/N}

Applied Physiology and Kinesiology^{T/N}

Athletic Training/Sports Medicine^{T/N}

Biobehavioral Science^{T/N}

Clinical Exercise Physiology^{T/N}

Exercise Physiology^{T/N}

Human Performance^{T/N}

Astronomy^{T/N}

Biochemistry and Molecular Biology^T

Biomedical Engineering^{T/N}

Medical Physics^{T/N}

Biostatistics^N

Botany^T

Tropical Conservation and Development^T

Wetland Sciences^T

Business Administration^{T/N}

Marketing^{T/N}

Retailing^{T/N}

Chemical Engineering^{T/N}

Chemistry^{T/N}

Civil Engineering^{T/N}

Geographic Information Systems^{T/N}

Hydrologic Sciences^{T/N}

Wetland Sciences^{T/N}

Coastal and Oceanographic Engineering^{T/N}

Computer Engineering^{T/N}

Digital Arts and Sciences^{T/N}
 Computer Sciences^{T/N}
 Dental Sciences^T
 Endodontics^T
 Orthodontics^T
 Periodontics^T
 Prosthodontics^T
 Digital Arts and Sciences^T
 Electrical and Computer Engineering^{T/N}
 Entomology and Nematology^{T/N}
 Entrepreneurship^{T/N}
 Environmental Engineering Sciences^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Wetland Sciences^{T/N}
 Epidemiology^T
 Biostatistics^T
 Health Management and Policy^T
 Family, Youth and Community Sciences^{T/N}
 Community Studies^{T/N}
 Family and Youth Development^{T/N}
 Nonprofit Organization Development^{T/N}
 Finance^{T/N}
 Fisheries and Aquatic Sciences^T
 Ecological Restoration^T
 Geographic Information Systems^T
 Natural Resource Policy and Administration^T
 Wetland Sciences^T
 Food and Resource Economics^{T/N}
 Agribusiness^{T/N}
 Hydrologic Sciences^{T/N}
 Toxicology^{T/N}
 Tropical Conservation and Development^{T/N}
 Food Science and Human Nutrition^{T/N}
 Nutritional Sciences^{T/N}
 Forest Resources and Conservation^{T/N}
 Agroforestry^{T/N}
 Ecological Restoration^{T/N}
 Geographic Information Systems^{T/N}
 Geomatics^{T/N}
 Hydrologic Sciences^{T/N}
 Natural Resource Policy and Administration^{T/N}
 Tropical Conservation and Development^{T/N}
 Wetland Sciences^{T/N}
 Geography^T
 Applications of Geographic Technologies^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Geology^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Health Education and Behavior^{T/N}
 Horticultural Sciences^{T/N}
 Environmental Horticulture^{T/N}
 Horticultural Sciences^{T/N}
 Industrial and Systems Engineering^{T/N}
 Information Systems and Operations Management^{T/N}
 Supply Chain Management^{T/N}
 Interdisciplinary Ecology^{T/N}
 Agricultural and Biological Engineering^{T/N}
 Agricultural Education and Communication^{T/N}
 Agronomy^{T/N}
 Anthropology^{T/N}
 Architecture^{T/N}
 Biochemistry and Molecular Biology^{T/N}
 Botany^{T/N}
 Business Administration^{T/N}
 Chemistry^{T/N}
 Civil Engineering^{T/N}
 Climate Science^{T/N}
 Coastal and Oceanographic Engineering^{T/N}
 Economics^{T/N}

English^{T/N}
 Entomology and Nematology^{T/N}
 Environmental Engineering Sciences^{T/N}
 Family, Youth and Community Sciences^{T/N}
 Farming Systems^{T/N}
 Fisheries and Aquatic Sciences^{T/N}
 Food and Resource Economics^{T/N}
 Food Science^{T/N}
 Forest Resources and Conservation^{T/N}
 Foundations of Education^{T/N}
 Geographic Information Systems^{T/N}
 Geography^{T/N}
 Geology^{T/N}
 Health and Human Performance^{T/N}
 Horticultural Sciences^{T/N}
 Hydrologic Sciences^{T/N}
 Landscape Architecture^{T/N}
 Mathematics^{T/N}
 Microbiology and Cell Science^{T/N}
 Nuclear and Radiological Engineering^{T/N}
 Philosophy^{T/N}
 Political Science^{T/N}
 Religion^{T/N}
 Sociology^{T/N}
 Soil and Water Science^{T/N}
 Statistics^{T/N}
 Tropical Conservation and Development^{T/N}
 Urban and Regional Planning^{T/N}
 Veterinary Medical Sciences^{T/N}
 Wetland Sciences^{T/N}
 Wildlife Ecology And Conservation^{T/N}
 Women's/Gender Studies^{T/N}
 Zoology^{T/N}
 Management^{T/N}
 Health Care Risk Management^{T/N}
 Materials Science and Engineering^{T/N}
 Mathematics^{T/N}
 Mechanical Engineering^{T/N}
 Medical Sciences^T
 Aging and Geriatric Practice^T
 Clinical and Translational Science^T
 Health Outcomes and Policy^T
 Translational Biotechnology^T
 Microbiology and Cell Science^{T/N}
 Medical Microbiology and Biochemistry^{T/N}
 Nuclear Engineering Sciences^{T/N}
 Physics^{T/N}
 Plant Molecular and Cellular Biology^T
 Plant Pathology^{T/N}
 Psychology^{T/N}
 Real Estate^{T/N}
 Recreation, Parks, and Tourism^{T/N}
 Historic Preservation^{T/N}
 Natural Resource Recreation^{T/N}
 Therapeutic Recreation^{T/N}
 Tourism^{T/N}
 Tropical Conservation and Development^{T/N}
 Soil and Water Science^{T/N}
 Agroecology^{T/N}
 Geographic Information Systems^{T/N}
 Hydrologic Sciences^{T/N}
 Tropical Conservation and Development^{T/N}
 Wetland Sciences^{T/N}
 Sport Management^{T/N}
 Historic Preservation^{T/N}
 Tropical Conservation and Development^{T/N}
 Veterinary Medical Sciences^{T/N}
 Forensic Toxicology^{T/N}
 Shelter Medicine^{T/N}
 Veterinary Forensic Sciences^{T/N}
 Wildlife Ecology and Conservation^{T/N}
 Geographic Information Systems^{T/N}
 Tropical Conservation and Development^{T/N}
 Wetland Sciences^{T/N}
 Zoology^{T/N}

Tropical Conservation and Development^{T/N}
Wetland Sciences^{T/N}

Master of Science in Architectural Studies (M.S.A.S.)^T

Architecture^T
Historic Preservation^T
Sustainable Architecture^T
Sustainable Design^T

Master of Science in Construction Management (M.S.C.M.)^T

Construction Management^T
Historic Preservation^T
Sustainable Construction^T
Sustainable Design^T

Master of Science in Entrepreneurship (M.S.E.N.T.)^N

Entrepreneurship^N

Master of Science in Information Systems and Operations Management (M.S.I.S.O.M.)^N

Information Systems and Operations Management^N
Supply Chain Management^N

Master of Science in Nursing (M.S.Nsg.)^{T/N}

Nursing^{T/N}

Master of Science in Pharmacy (M.S.P.)^{T/N}

Pharmaceutical Sciences^{T/N}
Clinical Pharmacy^{T/N}
Clinical Toxicology^{T/N}
Forensic DNA and Serology^{T/N}
Forensic Drug Chemistry^{T/N}
Forensic Science^{T/N}
Medication Therapy Management^{T/N}
Medicinal Chemistry^{T/N}
Pharmaceutical Chemistry^{T/N}
Pharmaceutical Outcomes and Policy^{T/N}
Pharmacodynamics^{T/N}
Pharmacy^{T/N}

Master of Science in Statistics (M.S.Stat.)^T

Statistics^T

Master of Science in Teaching (M.S.T.)^N

Astronomy^N
Botany^N
Tropical Conservation and Development^N
Wetland Sciences^N
Chemistry^N
Geography^N
Geographic Information Systems^N
Tropical Conservation and Development^N
Wetland Sciences^N
Geology^N
Tropical Conservation and Development^N
Wetland Sciences^N
Mathematics^N
Physics^N
Zoology^N
Tropical Conservation and Development^N
Wetland Sciences^N

Master of Statistics (M.Stat.)^N

Statistics^N

Master of Sustainable Development Practice (M.D.P.)^N

Sustainable Development Practice^N

Engineer (Engr.)^{T/N}

Chemical Engineering^{T/N}
Industrial and Systems Engineering^{T/N}

Specialist in Education (Ed.S.)^N

Curriculum and Instruction^N
Educational Leadership^N
Higher Education Administration^N
Marriage and Family Counseling^N
Mental Health Counseling^N

Research and Evaluation Methodology^N
 School Counseling and Guidance^N
 School Psychology^N
 Special Education^N
 Student Personnel in Higher Education^N

Doctor of Audiology (Au.D.)^N

Audiology^N

Doctor of Education (Ed.D.)^T

Counseling and Counselor Education^T
 Marriage and Family Counseling^T
 Mental Health Counseling^T
 School Counseling and Guidance^T
 Curriculum and Instruction^T
 Educational Leadership^T
 Educational Policy^T
 Higher Education Administration^T
 Educational Policy^T
 Marriage and Family Counseling^T
 Mental Health Counseling^T
 Research and Evaluation Methodology^T
 School Counseling and Guidance^T
 School Psychology^T
 Special Education^T

Doctor of Philosophy (Ph.D.)^T

Aerospace Engineering^T
 Agricultural and Biological Engineering^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Wetland Sciences^T
 Agricultural Education and Communication^T
 Tropical Conservation and Development^T
 Agronomy^T
 Toxicology^T
 Tropical Conservation and Development^T
 Animal Molecular and Cellular Biology^T
 Animal Sciences^T
 Animal Molecular and Cellular Biology^T
 Anthropology^T
 Historic Preservation^T
 Tropical Conservation and Development^T
 Women's/Gender Studies^T
 Art History^T
 Astronomy^T
 Biochemistry and Molecular Biology^T
 Animal Molecular and Cellular Biology^T
 Imaging Science and Technology^T
 Mammalian Genetics^T
 Toxicology^T
 Biomedical Engineering^T
 Clinical and Translational Science^T
 Medical Physics^T
 Biostatistics^T
 Botany^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Business Administration^T
 Accounting^T
 Finance^T
 Information Systems and Operations Management^T
 Insurance^T
 Management^T
 Marketing^T
 Quantitative Finance^T
 Real Estate and Urban Analysis^T
 Chemical Engineering^T
 Chemistry^T
 Clinical and Translational Science^T
 Imaging Science and Technology^T
 Civil Engineering^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Wetland Sciences^T
 Classical Studies^T

Coastal and Oceanographic Engineering^T
 Communication Sciences and Disorders^T
 Computer Engineering^T
 Counseling and Counselor Education^T
 Marriage and Family Counseling^T
 Mental Health Counseling^T
 School Counseling and Guidance^T
 Counseling Psychology^T
 Criminology, Law, and Society^T
 Curriculum and Instruction^T
 Design, Construction, and Planning^T
 Construction Management^T
 Historic Preservation^T
 Interior Design^T
 Landscape Architecture^T
 Urban and Regional Planning^T
 Economics^T
 Educational Leadership^T
 Educational Policy^T
 Electrical and Computer Engineering^T
 English^T
 Entomology and Nematology^T
 Environmental Engineering Sciences^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Wetland Sciences^T
 Epidemiology^T
 Clinical and Translational Science^T
 Fisheries and Aquatic Sciences^T
 Ecological Restoration^T
 Geographic Information Systems^T
 Natural Resource Policy and Administration^T
 Wetland Sciences^T
 Food and Resource Economics^T
 Hydrologic Sciences^T
 Toxicology^T
 Tropical Conservation and Development^T
 Food Science^T
 Toxicology^T
 Forest Resources and Conservation^T
 Agroforestry^T
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 Geomatics^T
 Hydrologic Sciences^T
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 Genetics and Genomics^T
 Clinical and Translational Science^T
 Geography^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Geology^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
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 Health and Human Performance^T
 Applied Physiology and Kinesiology^T
 Biobehavioral Science^T
 Clinical and Translational Science^T
 Exercise Physiology^T
 Health Behavior^T
 Historic Preservation^T
 Recreation, Parks, and Tourism^T
 Sport Management^T
 Health Services Research^T
 Higher Education Administration^T
 Educational Policy^T
 History^T
 Historic Preservation^T

Women's/Gender Studies^T
 Horticultural Sciences^T
 Environmental Horticulture^T
 Horticultural Sciences^T
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 Industrial and Systems Engineering^T
 Quantitative Finance^T
 Interdisciplinary Ecology^T
 Agricultural and Biological Engineering^T
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 Mechanical Engineering^T
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 Biochemistry and Molecular Biology^T
 Clinical and Translational Science^T
 Genetics^T
 Health Outcomes and Policy^T
 Imaging Science and Technology^T
 Immunology and Microbiology^T
 Molecular Cell Biology^T
 Neuroscience^T
 Physiology and Pharmacology^T
 Toxicology^T

Mental Health Counseling^T
 Microbiology and Cell Science^T
 Toxicology^T
 Music^T
 Composition^T
 Music History and Literature^T
 Music Education^T
 Nuclear Engineering Sciences^T
 Imaging Science and Technology^T
 Nursing Sciences^T
 Clinical and Translational Science^T
 Nutritional Sciences^T
 Clinical and Translational Science^T
 Pharmaceutical Sciences^T
 Clinical and Translational Science^T
 Clinical Pharmaceutical Sciences^T
 Medicinal Chemistry^T
 Pharmaceutical Outcomes and Policy^T
 Pharmacodynamics^T
 Pharmacy^T
 Toxicology^T
 Philosophy^T
 Physics^T
 Imaging Science and Technology^T
 Plant Molecular and Cellular Biology^T
 Toxicology^T
 Plant Pathology^T
 Toxicology^T
 Political Science^T
 Educational Policy^T
 Tropical Conservation and Development^T
 Psychology^T
 Clinical and Health Psychology^T
 Clinical and Translational Science^T
 Women's/Gender Studies^T
 Public Health^T
 Environmental Health^T
 One Health^T
 Social and Behavioral Sciences^T
 Rehabilitation Science^T
 Clinical and Translational Science^T
 Religion^T
 Tropical Conservation and Development^T
 Women's/Gender Studies^T
 Research and Evaluation Methodology^T
 Romance Languages^T
 French and Francophone Studies^T
 Spanish^T
 School Counseling and Guidance^T
 School Psychology^T
 Sociology^T
 Tropical Conservation and Development^T
 Women's/Gender Studies^T
 Soil and Water Science^T
 Geographic Information Systems^T
 Hydrologic Sciences^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Special Education^T
 Statistics^T
 Quantitative Finance^T
 Veterinary Medical Sciences^T
 Animal Molecular and Cellular Biology^T
 Clinical and Translational Science^T
 Toxicology^T
 Wildlife Ecology and Conservation^T
 Geographic Information Systems^T
 Tropical Conservation and Development^T
 Wetland Sciences^T
 Zoology^T
 Animal Molecular and Cellular Biology^T
 Tropical Conservation and Development^T
 Wetland Sciences^T

Doctor of Plant Medicine (D.P.M.)^N

Plant Medicine^NTropical Conservation and Development^N

HHP Courses - filtered

College of Health and Human Performance

Dean: M. Reid

Complete faculty listings: [Follow this link.](#)

Research and teaching in HHP has an impact on almost every aspect of the human condition. The college's four centers – the [Florida Center for Health Promotion](#), [Center for Exercise Science](#), and the [Eric Friedheim Tourism Institute](#) – as well as its three primary departments – [Applied Physiology and Kinesiology](#), [Health Education and Behavior](#), and [Tourism, Recreation, and Sport Management Department](#) – place the college firmly in a position to influence and improve an array of societal problems and challenges.

For more information about the College of Health and Human Performance, please see our website: <http://hhp.ufl.edu>

[Departments and Programs within the College of Health and Human Performance](#)

[College of Health and Human Performance Courses](#)

Applied Physiology and Kinesiology Department

Chair: S. Dodd

Graduate Coordinator: E. Christou

Complete faculty listing by department: [Follow this link.](#)

The **Ph.D. program** is offered with concentrations in biobehavioral science and exercise physiology. Students in the biobehavioral science concentration specialize in one of four areas: biomechanics, exercise / performance psychology, motor control / learning, or sports medicine. These interdisciplinary concentrations focus on preparing students as researchers with a blend of course work and research training.

A program leading to the **Master of Science** degree in applied physiology and kinesiology (thesis and non-thesis options) is also offered. Areas of concentration for the master's program include athletic training/sports medicine, biobehavioral science, clinical exercise physiology, exercise physiology, and human performance. The thesis option gives the student an opportunity to study, conduct research, and prepare a thesis in an area of special interest. The non-thesis option offers the student a specialization in a selected area of study, with additional work in other areas. A comprehensive written examination is required for this option, as is a capstone internship experience. Requirements for these degrees are given in the *General Information* section of this catalog.

Athletic training/sports medicine: This concentration provides comprehensive academic preparation, research, and clinical experience in the areas of injury prevention, assessment, treatment, rehabilitation, and therapeutic modalities.

Biobehavioral Science: This thesis mandatory concentration is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in one of several related disciplines: biomechanics, motor control and learning, and exercise and performance psychology. Each area of specialization is briefly described below.

- **Biomechanics:** The specialization in biomechanics draws from the fields of neuroscience, engineering, and medicine. The course work and training include kinematics and kinetics of movement. Course work also includes anatomy/kinesiology, biomechanics, engineering, neuroscience, medicine, psychology, physical therapy, and statistics.
- **Motor learning / control:** This interdisciplinary specialization draws on experiences and a knowledge base in the movement and sport sciences, cognitive sciences, and physical therapy. Students are prepared to conduct research and provide expertise in traditional motor performance and learning settings.
- **Exercise / performance psychology:** This area of specialization provides the basis for understanding and influencing the underlying thought processes and attitudes that will ultimately determine the performance of individuals involved in sport, exercise, and other achievement oriented activities. The primary emphasis is to develop the scientific background and skills necessary for doctoral training and research.

Clinical exercise physiology: The purpose of this non-thesis program is to give students the opportunity to develop advanced knowledge and competencies in Exercise Physiology. Clinical Exercise Physiologists typically practice in hospitals, clinics and wellness centers as part of a health care team that administers tests and develops programs of exercise, counseling, and education for patients with cardiopulmonary, metabolic, and musculoskeletal diseases.

Exercise physiology: This thesis mandatory area of concentration is concerned with the scientific study of how the various physiological systems of the human body respond to physical activity. It is a multidisciplinary field with strong ties to the basic life sciences and medicine, and application to clinical, normal, and athletic populations.

Human performance: This non-thesis master's concentration merges a range of specializations within the Department into a curriculum that provides educational experiences to graduate students interested in studying the factors that determine human performance in both athletic and nonathletic domains. This flexible approach allows students to focus on specific applications that best meet their individual interests. Human performance incorporates components such as nutrition, psychology, motor behavior, and physiology that are applicable to athletic and clinical populations.

APK 5127: Assessment in Exercise Science

APK 5404: Sport Psychology

APK 6111L: Practicum in Exercise Physiology

APK 6116C: Physiological Bases of Exercise and Sport Sciences

APK 6118: Neuromuscular Adaptation to Exercise

APK 6126: Cardiopulmonary Pathologies

APK 6128: EKG Interpretation

APK 6205C: Nature and Bases of Motor Performance

APK 6206: Planning Motor Actions

APK 6210: Controlling Motor Actions

APK 6225: Biomechanical Instrumentation

APK 6226C: Biomechanics of Human Motion

APK 6406: Exercise Psychology

APK 6408: Performance Enhancement

APK 6410: Seminar in Exercise Psychology

APK 6415: Seminar in Sport Psychology: Current Topics

APK 6900: Directed Independent Study

APK 6940: Advanced Practicum in Exercise and Sport Science

APK 7107: Cardiovascular Exercise Physiology

APK 7108: Environmental Stress Exercise Physiology

APK 7117: Exercise Metabolism

APK 7124: Free Radicals in Aging, Exercise and Disease

APK 7129: Pulmonary Function during Exercise

ATR 6124: Clinical Anatomy for the Exercise Sciences

ATR 6145: Human Pathophysiology for the Exercise Sciences

ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity

ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity

ATR 6304: Rehabilitation and Modalities of Athletic Injuries

ATR 6624: Athletic Training Research and Technology I

ATR 6625: Athletic Training Research and Technology II

ATR 6934: Seminar in Athletic Training

HLP 6515: Evaluation Procedures in Health and Human Performance

HLP 6911: Research Seminar

HLP 6935: Variable International Topics

PET 5936: Special Topics/Seminars

PET 6910: Supervised Research

PET 6940: Supervised Teaching

PET 6947: Graduate Internship in Exercise and Sport Sciences

PET 6971: Research for Master's Thesis

Department of Health Education & Behavior

Chair: Jalie A. Tucker

Graduate Coordinator: Christine B. Stopka

Complete faculty listing by department: [Follow this link.](#)

The Department of Health Education & Behavior offers a Doctor of Philosophy (Ph.D.) in Health and Human Performance with a concentration in Health Behavior, a non-thesis 30-credit hour Master of Science and a 36-credit Master of Science (M.S.) in Health Education and Behavior. Requirements for the Ph.D. and M.S. degrees are given in the *General Information* section of this catalog.

The Ph.D. degree program trains health behavior researchers for academic positions in federal health agencies such as the Centers for Disease Control and Prevention and the National Institutes of Health for postdoctoral research fellowships and for the private sector.

The 30-credit hour, non-thesis M.S. degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector. Full-time students can complete this M.S. option in one year. This degree may also give students unique and distinguishing training experiences when applying to professional schools such as law, medicine, physician assistant, dentistry, chiropractic, osteopathy, nursing, occupational therapy, and physical therapy.

The 36-credit hour project in lieu of thesis, and the 36-credit hour thesis options are designed for students interested in developing research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically can complete these options in about 4 semesters.

The Department also offers an accelerated B.S./M.S. program in health education and behavior to enable students to receive both B.S. and M.S. degrees with a reduction of 12 credits (about one semester of course work).

Students who complete a graduate degree program in the Department of Health Education & Behavior acquire a range of skills required to research, plan, implement, and evaluate health promotion policies and programs aimed at improving the health and well-being of individuals, families, and communities. Specific skills include:

- Conducting needs and capacity assessments to identify health priorities
- Planning, implementing, and evaluating health promotion policies and programs
- Conducting research on questions associated with health problems and their determinants and health promotion policies and programs
- Administering and managing health promotion programs
- Advocating for health promotion policies and programs in schools, communities, health care facilities, and worksites
- Developing social marketing and health communication messages and campaigns
- Researching and developing social media and new media-based health promotion applications
- Serving as a resource person for health information and referrals
- Using a variety of teaching-learning strategies appropriate to the target audience and setting
- Writing scholarly and professional articles
- Working collaboratively with public and private agencies, nongovernmental organizations (NGOs) and the private sector to achieve the goal of a healthier population.

This degree prepares the health promotion specialists and health behavior scientists to work in:

- Local, state, and federal health, education and social agencies
- Nongovernmental health organizations
- Schools and universities
- Healthcare settings
- Private sector

Sample position titles for individuals with this degree include:

- Health education specialist
- Health promotion specialist
- Public health adviser or public health analyst
- Health promotion coordinator or health promotion consultant
- Campus health educator or patient health educator,
- Health communication specialist
- Wellness specialist
- Wellness promotion coordinator
- Prevention specialist

For additional information, visit <http://www.hhp.ufl.edu/heb>.

HSC 5135: Emotional Health Education

HSC 5138: Human Sexuality

HSC 5142: Drug Education

HSC 5315C: Teaching Health in Elementary Schools

HSC 5536C: Medical Terminology for the Health Professions

HSC 5576: Nutrition Education for Special Populations

HSC 5606: Spirituality and Health

HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health

HSC 5626: Minority Health Issues

HSC 5657: Health and End-of-Life Issues

HSC 5925: Seminar in Health Education

HSC 5956: Writing for Professional Publications

HSC 6037: Philosophy and Principles of Health Education

HSC 6216: Environmental Health

HSC 6235: Patient Health Education

HSC 6318: Planning Health Education Programs

HSC 6506: Epidemiology

HSC 6567: Health Promotion and Programming in Gerontology

HSC 6571: Contemporary Issues in Health Promotion

HSC 6575: Women's Health Issues

HSC 6595: HIV/AIDS Education

HSC 6603: Theories of Health Behavior and Practice in Health Education

HSC 6605: Scientific Foundations of Holistic Health

HSC 6625: Trends in International Health

HSC 6629: Health Promotion for Priority Populations

HSC 6637: Social Marketing and Health

HSC 6646: Community Health Methods in Injury Prevention & Control

HSC 6665: Health Communication

HSC 6667: Health Communication Programs

HSC 6668: Interpersonal Communication and Health

HSC 6695: Worksite Health Promotion

HSC 6712: Evaluating Health Education Programs

HSC 6735: Research Methods in Health Education

HSC 6850: Internship in Health Education

HSC 6904: Readings in Health Education

HSC 6910: Supervised Research

HSC 6935: Current Topics in Health Education

HSC 6971: Research for Master's Thesis

HSC 6973: Project in Lieu of Thesis

HSC 7904: Advanced Readings in Health Education

HSC 7905: Advanced Independent Study in Health Education

HSC 7937: Advanced Seminar in Health Education**PEQ 5127: Advanced Instructors of Adapted Aquatics****PHC 6105: Health Promotion Policy and Practice****Tourism, Recreation, and Sport Management Department**[College of Health and Human Performance](#)

Chair: Michael Sagas.

Graduate Coordinator: Stephen Holland.

Complete faculty listing: [Follow this link.](#)

The degree Master of Science is offered by the Department of Tourism, Recreation, and Sport Management with programs in sport management and in recreation, parks, and tourism. Both programs offer thesis and non-thesis formats. The Department participates in the Ph.D. program in Health and Human Performance. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Master's program provides advanced preparation of tourism, recreation, and parks and sport management professionals for positions of leadership in planning, developing, administering, and marketing of programs in a variety of employment settings; public and private. Concentrations of study may be developed in a number of areas, such as:

- Natural resource recreation management
- Tourism and commercial recreation
- Campus recreation
- Recreation administration and supervision
- Sport management

The Doctoral program is offered through the College of Health and Human Performance with concentrations in tourism; natural resource recreation and sport management. These interdisciplinary specializations blend course work and research. The curriculum is individualized, and applicants with degrees from unrelated fields can be accepted into the program. However, their previous work will be evaluated and their programs planned according to their individual needs, interests, and career objectives.

Combined program: The Department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of approximately one semester. Up to 12 approved graduate credit hours can be utilized toward both degrees.

MS/MSM Concurrent Degree Program: This joint degree program is offered through the College of Business Administration (Master of Science in Business Management [MSM]) and the College of Health and Human Performance's, Department of Tourism, Recreation and Sport Management (Master of Science in Sport Management [MS]). Applicants must apply to both programs and be admitted to both to participate. The MS/MSM is a non-thesis degree. The MS/MSM is designed for students who seek a graduate business degree and who lack the work experience necessary for admission to the MBA program. The MS/MSM curriculum is similar to the first year of the MBA program, giving students a good foundation in business principles. Concurrent degree students can share up to 9 credit hours of the same coursework towards both degree programs. They do not have to graduate during the same semester. Students admitted into the concurrent program must work closely with both departments to verify all requirements are being met during their course of study.

MS/J.D. joint program: This 98-credit-hour joint degree program culminates in the Master of Science and the Juris Doctor degrees. Applicants must meet the entrance requirements for the Department of Tourism, Recreation, and Sport Management and the College of Law. Admission to the second degree program is required no later than the end of the fourth consecutive semester after beginning one of the degree programs. The student's supervisory committee comprises faculty members from both the Department of Tourism, Recreation, and Sport Management and the College of Law. Students admitted into the joint program are permitted to share up to 12 credit hours of the same coursework towards both degree programs. Students must graduate during the same semester from both programs.

HLP 6535: Research Methods in Health and Human Performance**HLP 7979: Advanced Research in Health and Human Performance****HLP 7980: Research for Doctoral Dissertation****HMG 6076: Introduction to Hospitality and Tourism****HMG 6608: Hospitality Law and Risk Management****HMG 6747: Marketing in Hospitality/Tourism****LEI 5121: Outdoor Recreation and Park Management****LEI 5188: Trends in Leisure Studies****LEI 6108: Contemporary Theories of Recreation and Leisure****LEI 6325: Ecotourism****LEI 6326: Sport Tourism****LEI 6336: Tourism Planning and Development****LEI 6351: Heritage Tourism**

LEI 6439: Campus Recreation Administration and Programming

LEI 6513: Administrative Procedures in Leisure Services

LEI 6514: Administrative Issues in Recreation, Parks, and Tourism

LEI 6557: Recreation Management/Development in the Coastal Zone

LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism

LEI 6895: Tourism Theory and Concepts

LEI 6903: Readings in Recreation, Parks, and Tourism

LEI 6905: Directed Independent Study

LEI 6910: Supervised Research

LEI 6931: Special Topics in Recreation, Parks, and Tourism

LEI 6935: Seminar in Recreation, Parks, and Tourism

LEI 6940: Supervised Teaching

LEI 6944: Practicum in Leisure Studies

LEI 6971: Research for Master's Thesis

LEI 7170: Foundations of Leisure Behavior

LEI 7901: Recreation, Parks, and Tourism in Higher Education

LEI 7904: Advanced Readings in Recreation, Parks, and Tourism

LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism

LEI 7910: Advanced Supervised Research

LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism

LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism

SPM 5016: Sport Sociology

SPM 5206: Sport Ethics

SPM 5309: Sport Marketing

SPM 5506: Sport Finance

SPM 5936: Current Topics in Sport Management

SPM 6006: Contemporary Sport Industry

SPM 6036: Research Seminar in Sport Management

SPM 6106: Management and Planning of Sport and Physical Activity Facilities

SPM 6158: Management and Leadership in Sport

SPM 6308: Study of Sport Consumer Behaviors

SPM 6726: Issues in Sport Law

SPM 6905: Directed Independent Study

SPM 6910: Supervised Research**SPM 6947: Graduate Internship in Sport Management****SPM 6948: Advanced Practicum in Sport Management****SPM 6971: Research for Master's Thesis**

Interdisciplinary Concentrations

[Agroforestry](#)
[Animal Molecular and Cell Biology](#)
[Clinical and Translational Science](#)
[Geographic Information Systems](#)
[Historic Preservation](#)
[Hydrologic Sciences](#)
[Quantitative Finance](#)
[Sustainable Architecture](#)
[Sustainable Design](#)
[Tropical Conservation and Development](#)
[Wetland Sciences](#)
[Women's and Gender Studies](#)

Interdisciplinary Graduate Concentrations

A number of graduate programs offer interdisciplinary enhancements in the form of concentrations, [field research](#), or [certificates](#). The following programs offer interdisciplinary study leading to a concentration or minor, whether offered by a single college or by multiple colleges. Please follow individual links within the [Majors Section](#) of this catalog or contact the programs directly for further information.

The agroforestry interdisciplinary concentration is administered through the School of Forest Resources and Conservation. It offers facilities for interdisciplinary graduate education (M.S., Ph.D.) by combining course work and research around a thematic field focusing on agroforestry, especially in the context of tropical land use. Students seeking admission to the concentration need a degree in a relevant field such as agronomy, forestry, horticulture, soil science, or social sciences. They should apply to the School of Forest Resources and Conservation or another academic unit that closely represents their background and interest. Course work may be chosen from several related disciplines. Thesis research can be undertaken in Florida or overseas. Degrees are awarded through the academic units the candidates are enrolled in.

In conjunction with the graduate degree, a student can earn a concentration or minor in agroforestry by fulfilling certain requirements. Students who have a primary interest in agroforestry and undertake graduate research on an agroforestry topic can seek the concentration. Those who have an active interest and some training in agroforestry, but do not conduct graduate research on an agroforestry topic, can earn a minor. Candidates meeting the requirements can have Concentration in Agroforestry or Minor in Agroforestry appear on their transcripts.

Each option requires completing FNR 5335 (Agroforestry) and an appropriate number of approved supporting courses. These courses should be distributed over at least two academic units outside the major to prepare the student to function in multidisciplinary teams and to associate with professionals from other disciplines. Students whose background is in biology are encouraged to take social science courses, and vice versa.

For a student with a concentration or minor in agroforestry, at least one member of the supervisory committee should represent agroforestry. The Agroforestry Program Advisory Committee requires this member to counsel the student on selecting courses and the research topic.

For more information, contact the Agroforestry Program Leader, 330 Newins-Ziegler Hall, Phone (352) 846-0880, Fax (352) 846-1277, E-mail pknair@ufl.edu.

The interdisciplinary concentration in animal molecular and cell biology (AMCB) gives graduate students in the animal and veterinary sciences an understanding of principles of molecular and cell biology as applied to animal health and production. It emphasizes participation in molecular and cell biology research and provides an intellectual environment for cross-fertilization among disciplines. The AMCB gives graduate students access to the diverse research facilities needed to study cellular and molecular biology, reproductive biology, virology, immunology, and endocrinology. Facilities exist for recombinant DNA research, experimental surgery, in vitro culture of cells, tissue and organ explants, embryo manipulation, vaccine production, and recombinant protein engineering.

Ph.D. degrees are awarded by participating academic units, with an interdisciplinary concentration in animal molecular and cell biology. Applicants need a strong background in animal or veterinary sciences. Graduate degree programs are designed by each student's supervisory committee, headed by the member who represents AMCB. All students must complete a core curriculum, may obtain cross-disciplinary training through rotations in laboratories of participating faculty, and may participate in the AMCB seminar series.

Requirements for admission to AMCB are the same as for the faculty adviser's academic unit and college.

Note that typically students interested in education through the AMCB enroll in the AMCB graduate program rather than the AMCB interdisciplinary concentration. For more information, contact Dr. Peter J. Hansen, Department of Animal Sciences, pjhansen@ufl.edu.

Clinical and Translational Science

This unique concentration in the Master of Science program in medical sciences was developed by an interdisciplinary faculty to provide sound didactic background in the foundations of clinical research. Core course requirements cover study design, data analysis, ethical conduct of research, epidemiology, manuscript and abstract writing, and grant writing. Additional electives in specific fields may be taken from other concentrations or programs. A research thesis designed and conducted with a clinical research mentor is required.

For clinically trained M.D.s and other doctoral-level health professionals, the M.S. concentration in clinical and translational science (MS-CTS) may be part of a more-complete training experience in clinical research offered through the College of Medicine as the Advanced Postgraduate Program in Clinical Investigation (APPCI).

For more information:
Dr. Marian Limacher

Program Director
P.O. Box 100277
Health Science Center
Gainesville, FL 32610

<http://www.ctsi.ufl.edu/education/programs/ph-d-students/cts-interdisciplinary-concentration/>

Geographic Information Systems (GIS) revolutionized the way land features are located, measured, inventoried, managed, planned, and studied. GIS provides theories and methods for measuring location and topography, physical and biological attributes, and distribution of cultural components through data storage, analysis, modeling, mapping, and data display.

GIS applications are diverse. They include determining the suitability of land for different uses, planning future land uses, setting cadastral boundaries for the purpose of property recognition and taxation and regulation, analyzing land and land-cover for both resource inventories and scientific studies, and siting commercial enterprises.

Users and producers of GIS include engineers, geographers, planners, biologists and ecologists, land resource managers, archaeologists, sociologists, public health professionals, medical researchers, property tax assessors, law enforcement officers, land-development companies, utility companies, and retail stores. Undergraduate and graduate students who learn to use GIS technology are in high demand and so start at higher salaries than their non-GIS peers. As a result the GIS community at the University of Florida developed the **Interdisciplinary Concentration for Geographic Information Systems (ICGIS)**.

The ICGIS integrates existing GIS resources on campus, for graduate students, in response to changing regulatory environments in institutions and governments at all levels. This concentration established a standard set of courses and activities that allow graduate students to become experts in creating, studying, and using geographic information. Such graduates are in strong positions to meet future regulatory requirements for certification as professionals. Structurally, the ICGIS established a five-category curriculum within the standard M.S., M.A., M.E., or Ph.D. requirements. Completing the GIS concentration is officially recognized by statements on transcripts and a certificate.

For more information, contact Dr. Scot E. Smith, University of Florida, P.O. Box 110565, Gainesville FL 32611, Phone (352) 392-4990, E-mail sesmith@ifas.ufl.edu.

Historic preservation is the safeguarding of all cultural heritage: tangible and intangible. The College of Design, Construction, and Planning offers an interdisciplinary opportunity to study for the profession through multiple fields including archeology, architecture, landscape architecture, urban and regional planning, interior design, building construction, museum studies, law, and cultural tourism. The master's degree course work is practical and technical in scope and includes the study of history, research techniques, traditional crafts, materials conservation, documentation, interpretation, cultural research management, housing, urban rejuvenation and adaptive use of historic structures, restoration methodologies, economics, green design and sustainable/livable communities.

The 21st century offers significant expansion of the field of heritage conservation to address smart growth, sustainability, and economic development initiatives. Many related jobs exist, including preservation consultant, preservation contractor, preservation researcher, Main Street program director, site manager, lawyer, archaeologist, cultural resource manager, historian, real estate professional, and policy administrator.

The College offers several nationally recognized field schools or practica: Preservation Institute: Nantucket, Traditional Crafts Field School, and the National Historic Landmarks District in Saint Augustine, America's oldest city.

The Interdisciplinary Concentration and Certificate in Historic Preservation (ICCHP) integrates resources throughout UF to address the diverse topics relevant to the field. Thus, the ICCHP establishes a set of courses that allow graduate students to gain expertise in researching and applying historic preservation in the United States and abroad. Depending on the student's career goals and background, this can include recognizing, documenting, and protecting historic structures and sites; rehabilitation and restoration technologies; and exploring emerging and related specializations such as community development and sustainable development.

The interdisciplinary curriculum structure draws on course work providing 12 credits for master's students and 15 credits for Ph.D. students specializing in historic preservation. The concentration is officially recognized by statements on the transcript and by a certificate.

For more information, contact Morris Hylton, Director of Historic Preservation Programs. University of Florida, P.O. Box 115701, Gainesville FL 32611. Phone (352)392-0252, ext. 457. E-mail mhylton@ufl.edu.

The University of Florida College of Design, Construction and Planning offers a **Master of Historic Preservation** degree using an interdisciplinary variety of coursework in the basic and applied skills and arts of historic preservation, anthropology, archeology, architecture, building construction, cultural tourism, history, interior design, landscape architecture, museum studies, and urban and regional planning. The coursework totals 42 hours. Students must take 12 hours of core courses, 6 hours of pre-approved history electives, and may choose from pre-approved and specially approved electives from across the campus. A true thesis to meet Graduate Requirements relating to historic preservation is required.

Program of Study

The Master of Historic Preservation degree program promotes interdisciplinary thinking in historic preservation by combining (1) required coursework in history and theory, research, documentation and recording historic sites, conservation of building materials and systems, and practica or other practical experience with (2) two courses in the history of the designed environment (including, for example architecture, urban development, landscape architecture, archeology, or material culture.) with (3) electives from a list of courses identified by the faculty, in the subject areas of resource-related studies including design issues, neighborhood issues (zoning, strategic planning, housing and social aspects of real estate development) historic and cultural landscape issues, historic interior issues, economic issues (marketing principles, private and public finance, property management and budget preparation), legal issues (Constitutional law, preservation case law, federal, state and local regulatory legislation and administration) sustainability issues traditional building crafts and curatorial issues (site development interpretation, management and cultural tourism). A true thesis that meets Graduate Requirements on an approved historic preservation topic is also required.

For more information contact:

For more information contact
Marty Hylton
Graduate Coordinator
mhylton@dcp.ufl.edu
352-392-0252 ext. 457

Pat DeJong
Student Affairs Coordinator
patricde@dcp.ufl.edu
352-392-4836 ext. 312

Interdisciplinary graduate studies in hydrologic sciences are for science and engineering students seeking advanced training in diverse aspects of water quantity and quality, and water-use issues. This concentration emphasizes (1) understanding the physical, chemical, and biological processes occurring over broad spatial and temporal scales; and (2) skills in hydrologic policy and management based on a strong background in natural and social sciences and engineering.

Graduate Faculty from eight departments in three colleges contribute to this interdisciplinary concentration. Depending on academic background and research interests, students may earn a degree in any one of the following departments: Agricultural and Biological Engineering, Civil and Coastal Engineering, Environmental Engineering Sciences, Food and Resource Economics, Forest Resources and Conservation, Geography, Geological Sciences, and Soil and Water Science.

M.S. (thesis and non-thesis option) and Ph.D. studies are available. Interdisciplinary graduate requirements recognize diversity in the academic backgrounds and professional goals of the students. A core curriculum (12 credits for M.S.; 18 credits for Ph.D.) provides broad training in six topics: subsurface hydrology, surface hydrology, hydrologic chemistry, hydrologic ecology, hydrologic analysis and techniques, and hydrologic policy and management. Research projects involving faculty from several academic units can provide the basis for thesis and

dissertation research topics.

Students with B.S. or M.S. degrees in any of the following disciplines are encouraged to consider this specialization in their graduate program: engineering (agricultural, chemical, civil, environmental); natural sciences (physics, biology, chemistry); social sciences (agricultural and resource economics); forestry; and earth sciences (geography, geology, soil and water science).

For more information, contact Dr. Wendy Graham, UF Water Institute, P.O. Box 116601, Gainesville FL 32611, Phone (352) 392-5893, E-mail water-institute@ufl.edu; or visit the Hydrologic Sciences Academic Cluster website (<http://www.hydrology.ufl.edu>).

The interdisciplinary concentration in quantitative finance trains students for academic and research positions in quantitative finance, and risk management. It gives graduates an edge in the job market by providing substantial expertise in key related disciplines: finance, operations research, statistics, mathematics, and software development. It is focused in teaching and research on design, development, and implementing new financial and risk management products, processes, strategies, and systems to meet demands of various institutions, corporations, governments, and households. Emphasis is on an interdisciplinary approach requiring knowledge in finance, economics, mathematics, probability/statistics, operations research, engineering, and computer science.

Four academic units participate in this interdisciplinary concentration: Industrial and Systems Engineering (College of Engineering), Mathematics (College of Liberal Arts and Sciences), Statistics (College of Liberal Arts and Sciences), and Finance, Insurance, and Real Estate (College of Business Administration). To be eligible, a student must be admitted to a Ph.D. program in one of these participating academic units. Students seeking admission to the concentration need strong quantitative skills and a degree in one of the relevant fields such as finance, engineering, statistics, or mathematics. Students with a background in several disciplines are welcome. Application should be submitted to one of the participating academic units.

Each student takes basic courses and meets the home academic unit's Ph.D. requirements. The student also takes approved courses in the other participating academic units to meet the requirements of the concentration.

Dissertation research is conducted in quantitative finance, risk management, and relevant areas involving quantitative finance approaches. The student receives a Ph.D. degree and a Certificate in Quantitative Finance.

Activities of the Ph.D. concentration in quantitative finance are supported by the Risk Management and Financial Engineering Laboratory (RMFE Lab), <http://www.ise.ufl.edu/rmfe>. The RMFE Lab facilitates research and applications in the area of risk management and financial mathematics/engineering including organizing research meetings, seminars, and conferences. It provides a basis for the collaborative efforts of multidisciplinary teams of UF researchers, governmental institutions, and industrial partners.

The Concentration and Certificate in Sustainable Architecture is for architecture graduate students (in the M.Arch. or M.S.A.S. program) seeking advanced courses on a wide range of topics related to sustainable architecture. The concentration in sustainable architecture supports detailed rigorous study in specific areas of expertise. Furthermore, the program requirements recognize the inherent diversity of academic backgrounds and professional goals of the students. Thus, there is flexibility in the selection of a suite of courses, while maintaining exposure to the multidisciplinary subject matter of sustainable architecture. This essential feature of the program allows students to develop individualized yet focused plans of study. Students select from a variety of approved courses offered in the College of Design, Construction, and Planning (the School of Architecture, the School of Building Construction, the Department of Interior Design, the Department of Landscape Architecture, and the Department of Urban and Regional Planning); and in other colleges in the University. Course work may include the following sustainability issues.

- **Architectural design and preventing environmental degradation:** protecting ecosystems, fauna and flora, energy consumption, energy conservation, architectural commissioning, maintenance, water consumption, land use, and materials selection (resource depletion, environmental degradation, and healthy environments)
- **Providing healthy architectural environments:** indoor air environmental quality, nontoxic environments, and sustainable ecosystems and landscapes
- **Responsive and responsible building design and construction:** environmentally responsive architecture, and environmentally responsible architecture
- **Sustainable architectural and environment theory:** the philosophy of sustainable design, ecological theory, sustainability and ethics, deep ecology, and systems theory
- **Enhancing the community environment:** historic preservation, sustainable developments, community and neighborhood design, regional design, and systems theory
- **Mitigating the environmental effects of construction operations:** life cycle operations, design longevity, reusing materials, recycling materials, deconstruction, and reconstruction.

Students enrolled in the Concentration and Certificate Program in Sustainable Architecture must complete at least 12 credits of approved sustainable architecture electives. Students must complete at least 6 credits within the School of Architecture; and at least one approved 3 credit course from outside the School of Architecture. Students also must complete a research project or thesis on a subject pre-approved by the concentration's Governing Board, related to sustainable architecture. For more information, contact the Graduate Program Assistant, School of Architecture, University of Florida, Box 115702, Gainesville FL 32611-5702, Phone (352) 392-0205 ext. 202, E-mail bhuds@ufl.edu

The Interdisciplinary Concentration and Certificate in Sustainable Design (ICCSA) is for master's-level students in the College of Design, Construction, and Planning. This concentration allows students to become proficient in one or more of the following areas: sustainable architecture, sustainable construction, sustainable interior design, sustainable landscape architecture, or sustainable urban planning. Course work deals with the following issues.

- **Preventing environmental degradation:** protecting ecosystems, fauna and flora, energy conservation, energy consumption, architectural commissioning, maintenance, water consumption, land use, site selection, and materials selection (resource depletion, environmental degradation, and healthy environments)
- **Providing healthy environments:** indoor air environmental quality, outdoor environmental quality, nontoxic environments, and sustainable ecosystems and landscapes
- **Responsive and responsible building construction:** construction impacts on sites, environmentally responsive architecture, environmentally responsible architecture (preventing environmental degradation), and designing sustainable building components
- **Mitigating the environmental effects of construction operations:** life cycle operations, design longevity, reusing materials, recycling materials, deconstruction, reconstruction, and historic preservation
- **Enhancing the community environment:** sustainable developments, community and neighborhood design, regional design, and city planning design
- **Environmental theory:** the philosophy of sustainable design, ecological theory, sustainability and ethics, deep ecology, and systems theory.

Students wishing to participate in the ICCSA should notify their department or school as early in the graduate program as possible. To participate in the ICCSA, a student must be admitted and enrolled in one of the departments participating in the ICCSA. Students will complete the concentration for either the master's degree or Master of Science degree, but not for both degrees if awarded from the University of Florida. **Students cannot enroll in two concentration programs at the same time.**

To successfully complete the ICCSA, the student must earn 12 credit hours in sustainable design research and course work from a list of recommended courses. To satisfy the interdisciplinary intent of the ICCSA, the student must take one of the approved 3 credit courses outside their home department or school, but within the College of Design, Construction, and Planning and at least one approved 3 credit course from another college of the University. For more information, contact the Dean's Office in the College of Design, Construction, and Planning, University of Florida, Box 115701, Gainesville FL 32611, Telephone (352) 392-4836.

The Tropical Conservation and Development Program (TCD), in the Center for Latin American Studies, offers an interdisciplinary graduate certificate and graduate concentration focused on integrative approaches to conservation and development in the tropics, including sub-tropical and temperate areas in developing countries. Both the certificate and concentration are open to students who are interested in acquiring interdisciplinary knowledge and technical skills to pursue a career in conservation and development research and practice. These students must be enrolled in master's or Ph.D. programs in TCD's affiliate academic units at the University of Florida.

Course work for the certificate and the concentration includes social science theory, principles of tropical ecology, and patterns and trends of tropical resource use and conservation. TCD core courses also allow students to gain essential practical skills. Emphasis is on communication and presentation techniques, grant writing, proposal writing, and fundraising facilitation and conflict management; participatory methods for research and project implementation; and project design, analysis, and evaluation. Summer research, practitioner experiences, and field-based training programs provide learning opportunities outside the classroom.

On completing the certificate or concentration, students should have an in-depth understanding of the relationships among biological conservation, resource management, and the livelihood needs of rural communities; and the appropriate professional skills for a career in research, field practice, or both.

TCD's affiliate academic units are African Studies, Agricultural and Biological Engineering, Agricultural Education and Communication, Agronomy, Anthropology, Architecture, Biology, Comparative Law, Entomology and Nematology, Food and Resource Economics, Forest Resources and Conservation, Geography, Geology, Latin American Studies, Natural History Museum, Natural Resources and Environment, Plant Medicine, Political Science, Religion, Sociology, Soil and Water Science, Tourism, Recreation and Sports Management, Urban and Regional Planning, Wildlife Ecology and Conservation, and Women's Studies.

Master's students can earn a certificate in TCD by completing 12 credits of approved course work: 2 interdisciplinary core courses and 1 course each in tropical ecology and social science. Ph.D. students can earn a certificate by completing 15 credits of approved course work (3 interdisciplinary core courses and 1 course each in tropical ecology and social science). Students from natural science academic units must take the social science credits outside their major. Otherwise, courses from the student's major can count toward program requirements. Substitutions need prior approval from the TCD faculty adviser.

To earn a concentration in TCD, students must complete the course requirements for the certificate (as explained above) and they must focus on conservation and development in their thesis, dissertation, or final project. One member of the student's supervisory committee must be a TCD affiliate faculty member. This person is responsible for judging whether the student's thesis focuses on tropical conservation and/or development. For the faculty member to make this judgment, the student must articulate in writing how the research fits in the broader context of biodiversity conservation and/or rural development in the tropics, subtropics, or temperate areas in developing countries. This person cannot count as the external member of the committee.

For more information on the TCD certificate and concentration program, and for a list of approved courses, visit the TCD website (<http://www.ufl.edu>), or contact Bette Loiselle, TCD Director, 347 Grinter Hall, (352) 273-4706, E-mail Loiselle@latam.ufl.edu or Patricia Sampaio, TCD Program Coordinator, 343 Grinter Hall, (352) 273-4734, Email PSampaio@latam.ufl.edu.

The **Interdisciplinary Concentration in Wetland Sciences (ICWS)** is a unified interdisciplinary program in wetland science and policy for master's and doctoral students.

Graduate faculty from the following academic units contribute to the wetlands sciences concentration: Agricultural and Biological Engineering, Botany, Civil Engineering, Environmental Engineering Sciences, Fisheries and Aquatic Sciences, Forest Resources and Conservation, Geography, Geological Sciences, Landscape Architecture, Law, Soil and Water Sciences, Urban and Regional Planning, Wildlife Ecology and Conservation, and Zoology. Students in any of these programs may elect to participate in the ICWS. A major strength of the ICWS is the breadth of wetlands-related courses and research opportunities in many academic programs across campus. The ICWS exposes students to perspectives outside their disciplines and provides a rigorous, substantive education in wetlands sciences in addition to their disciplinary focus.

Students may complete the ICWS for either the M.S. or Ph.D. degree. A core curriculum (15 credits for M.S. and 18 credits for Ph.D.) provides the opportunity for interdisciplinary training in four broad subject areas:

- wetlands science (1 course each in wetlands ecology, wetland hydrology, and wetlands biogeochemistry),
- wetlands systems,
- wetlands organisms, and
- wetlands policy/law.

Additional course work in a student's disciplinary focus may strengthen the student's knowledge base or allow for specialization in one or more of the areas.

For more information, contact Dr. Mark T. Brown, Director, Howard T. Odum Center for Wetlands, Phelps Lab, P.O. Box 116350, Gainesville FL 32611, Phone (352) 392-2424; or visit the website (<http://www.cfw.ufl.edu>).

Two certificates, one master's degree (thesis or non-thesis option), and a doctoral concentration are offered in women's and gender studies. Participating graduate faculty are from several academic units, campus-wide, including Agricultural and Life Sciences, Anthropology, Counselor Education, English, German and Slavic Studies, History, Journalism and Communications, Latin American Studies, Linguistics, Medicine, Nursing, Philosophy, Psychology, Religion, Romance Languages and Literatures, Sociology, and Teaching and Learning.

The two graduate certificates in women's studies for master's and doctoral students are offered in conjunction with degree programs in other academic units. The Graduate Certificate in Women's Studies and the Graduate Certificate in Gender and Development require specific sets of course work to thoroughly ground students in the discipline. The Graduate Certificate in Women's Studies is a general introduction to the field, and the Graduate Certificate in Gender and Development allows students to focus on issues related to gender, economic development, and globalization.

The doctoral interdisciplinary concentrations in women's and gender studies give graduate students a thorough grounding in the new scholarship produced by the intersection of women's studies and other academic fields. The concentration facilitates analysis and assessment of theories about the role of gender in cultural systems and its intersections with other categories of differences, such as race, ethnicity, religion, class, sexuality, physical and mental ability, age, and economic and civil status. Emphasis is on participating in women's and gender studies research and on providing an intellectual environment for cross-fertilization among disciplines. Women's and gender studies critically explores the role and status of women and men, past and present.

Participating academic units award Ph.D. degrees with an interdisciplinary concentration in women's and gender studies. Study plans are designed by each student's supervisory committee, whose chair is affiliated with women's and gender studies.

Admission requirements are those of the student's home academic unit and college. After admission to the degree-granting academic unit, the application is sent to the Graduate Coordinator of Women's and Gender Studies who chairs an admissions committee.

For more information on the master's degree, contact the Director, Center for Women's Studies and Gender Research, 3324 Turlington Hall.

Journalism Courses - filtered

College of Journalism and Communications

Dean: D. McFarlin

Senior Associate Dean for Graduate Studies and Research: D. Treise

Graduate Coordinators:

(Advertising) J. R. Goodman
(International Communication) M. Leslie
(Journalism) R. Rodgers
(Public Relations) M.A. Ferguson
(Science/Health Communication) D. Treise
(Telecommunication) J. Cleary.

Complete faculty listings: [Follow this link.](#)

Through the Division of Graduate Studies and Research, the College of Journalism and Communications offers the Doctor of Philosophy degree, the Master of Arts in Mass Communication (thesis or project option) degree, and the Master of Advertising (thesis) degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Doctoral students work closely with faculty members in research leading to a dissertation embodying a humanities, law/policy, or social sciences approach. Emphases within these approaches for which faculty members have expertise include advertising, journalism, public relations, telecommunication, international communication, and political communication. Details of doctoral

faculty research interests and other aspects of the program are given in the College's Ph.D. Handbook.

Master's students may complete a thesis in advertising, journalism, public relations, telecommunication, international communication, or science/health communication. With the approval of the Sr. Associate Dean of Graduate Studies and Research and other faculty members, master's students may develop an individualized program of study, with thesis, to meet their specific needs and interests. A project in lieu of thesis option is available for some specializations.

Mass Communication/Law joint degree programs: Programs leading to the Master of Arts in Mass Communication or the Doctor of Philosophy and the Juris Doctor are offered under the joint auspices of the College of Journalism and Communications and the College of Law. For students interested in scholarship or practice of communication law or in reporting on the law, the programs offer the opportunity to blend relevant work from the two colleges. Students must meet the entrance requirements of both colleges. A thesis or dissertation is required. Interested students should apply for admission to both the Graduate School and the College of Law, noting on the applications the joint nature of the admission requests. Further information on the programs and on application procedures is available from the Holland Law Center and from the Division of Graduate Studies and Research of the College of Journalism and Communications.

General admission: Admission is granted to applicants with and without background in mass communication. Students without academic preparation in mass communication or appropriate experience may be required to take articulation work. These courses are taken concurrently with general graduate courses, starting in the first term of registration. Some degree plans require a background course in statistics. Students who have satisfied that requirement must provide written verification. Including articulation courses, the master's degree normally can be earned in one and one-half or two years of full-time study. Doctoral studies require three or more years of full-time study and research. Students who may require articulation courses should contact the Sr. Associate Dean of Graduate Studies and Research.

Grading policy: Any student whose cumulative GPA falls below 3.0 will be placed on probation. Any doctoral student who receives one grade below B- or a Master's student who receives one grade below C+ will be placed on probation, with the exception of courses taken from the Levin College of Law. For these courses, any student receiving one grade below C in any course from the Levin College of Law will be placed on probation. A requirement of the probation is that the student must achieve or maintain a cumulative grade point average of 3.0 or higher at the end of the next academic term in residence. A student who fails to satisfy the requirement will be suspended. A Doctoral student who accumulates two grades below "B-" or a Master's student who accumulates two grades below C+ during graduate studies will be suspended, as will a student who receives one grade of "D+" or lower at any time. Students will be allowed only one suspension.

Combined degree program: The College offers a combined bachelor's/master's program. For information, contact the Associate Dean for Graduate Studies.

For additional information, please see our website: <http://www.jou.ufl.edu/grad>.

[College of Journalism and Mass Communication Courses](#)

ADV 5005: Advertising Planning

ADV 6006: Theories of Advertising

ADV 6305: Advanced Media Planning

ADV 6325: Advertising and Social Media

ADV 6405: International Advertising

ADV 6503: Advertising Creative Strategy and Research

ADV 6505: Advertising Research Methods

ADV 6602: Advertising Management

COM 6315: Advanced Research Methods

COM 6338: Advanced Web Topics I: Advanced Design

COM 6940: Supervised Teaching

FIL 6061: History of Documentary Film I

FIL 6062: History of Documentary Film II

FIL 6101: Advanced Radio, Television, and Film Writing

FIL 6315: Writing for Documentary I

FIL 6317: Producing and Writing the Documentary

FIL 6335: Business of Documentary

FIL 6340: Issues and Problems in Documentary

FIL 6365: Documentary Pre-Production Planning

FIL 6366: Documentary Procedures II

FIL 6377: Documentary Field Production

FIL 6378: Documentary Research Methods

FIL 6380: Advanced Post-Production Techniques

JOU 5007: History of Journalism

JOU 5705: Issues and the Press

JOU 6102: Reporting Workshop

JOU 6114: Journalist Bootcamp

JOU 6309: Seminar in Journalism as Literature

JOU 6344: Journalist Toolkit 1

JOU 6349: Journalist Toolkit 2

JOU 6502: Newsroom Management

MMC 5005: Mass Communication History

MMC 5006: Introduction to Multimedia Communication

MMC 5015: Electronic Publishing

MMC 5206: Advanced Law of Mass Communication

MMC 5277: Web Design Principles

MMC 5306: International Communication

MMC 5315: Survey of Foreign Correspondence

MMC 5427: Research Methods in Digital Communcation

MMC 5636: Introduction to Social Media

MMC 5708: Foundations of Intercultural Communication

MMC 6202: Legal Problems of Mass Communication

MMC 6278: Advanced Web Topics II

MMC 6307: Seminar in International Communication

MMC 6400: Mass Communication Theory

MMC 6402: Seminar in Mass Communication Theory

MMC 6405: Seminar in Mass Communication and Public Opinion

MMC 6409: Science/Health Communication

MMC 6417: Seminar in Mass Media and Health

MMC 6421: Research Methods in Mass Communication

MMC 6423: Content-Analysis Methods

MMC 6426: Seminar in Qualitative Research

MMC 6428: Collaborative Communication Research

MMC 6429: News and Numbers

MMC 6560: Seminar in History of Mass Communication

MMC 6612: New Media and a Democratic Society

MMC 6615: Race, Class, Gender, and Media

MMC 6618: Survey of Political Communication

MMC 6619: Seminar in Political Advertising

MMC 6660: Mass Communication and Society

MMC 6665: Seminar in First Amendment Theory

MMC 6666: Seminar in Research in Mass Communication Law

MMC 6667: Seminar in Advanced Topics in Mass Communication Law

MMC 6668: Seminar in Public Policy Toward Mass Media

MMC 6706: Covering the Arts

MMC 6725: Social Media and Society

MMC 6726: Social Media and Virtual Worlds

MMC 6727: Social Media Metrics

MMC 6728: Branding Using Social and Mobile Media

MMC 6730: Social Media Management

MMC 6905: Individual Work

MMC 6910: Supervised Research

MMC 6920: Communication Proseminar

MMC 6929: Communication Colloquium

MMC 6930: Seminar in Mass Communication Teaching

MMC 6936: Special Topics in Mass Communication

MMC 6949: Professional Internship

MMC 6951: Masters Project Seminar

MMC 6971: Research for Master's Thesis

MMC 6973: Project in Lieu of Thesis

MMC 7979: Advanced Research

MMC 7980: Research for Doctoral Dissertation

PUR 5507: Persuasion Theory and Research

PUR 6005: Theories of Public Relations

PUR 6006: Public Relations Foundations

PUR 6403: Crisis and Risk Management

PUR 6416: Public Relations and Fund Raising

PUR 6446: Public Relations and Philanthropy

PUR 6506: Public Relations Research

PUR 6607: Public Relations Management

PUR 6608: International Public Relations

PUR 6934: Problems in Public Relations

RTV 5702: Telecommunication Regulation

RTV 6105: Writing for Electronic Media

RTV 6309: Advanced TV Reporting

RTV 6508: Audience Analysis

RTV 6801: Telecommunication Management

RTV 6807: Telecommunication Outlet Systems and Practices

RTV 6973: Project in Lieu of Thesis

VC 5315: Corporate and Brand Identity on the Web

VC 5325: Digital Imagery in Web Design

VC 5326: Digital Media Layout and Design

VC 6316: Brand Management

Law Courses - filtered

Fredric G. Levin College of Law

Dean: R. Jerry II

Complete faculty listings: [Follow this link.](#)

The University of Florida Levin College of Law has a longstanding tradition of producing national leaders, including current American Bar Association President Stephen Zack, and is one of the nation's best values in legal education.

For more information, please see our website: <http://www.law.ufl.edu>

[Departments and Programs within Levin College of Law](#)

[Levin College of Law Courses](#)

Comparative Law Department

Director and Graduate Coordinator: P.A. Malavet.

Complete faculty listing by department: [Follow this link.](#)

The LL.M. in Comparative Law degree is designed for graduates of foreign law schools who want to enhance their understanding of the American legal system and the English common law system from which it evolved. Requirements for this degree are given in the *General Information* section of this catalog.

The program begins with Introduction to American Law, a 4-credit summer course that gives students a foundation in the American legal process. It also helps students acclimate to the College of Law and the University community before to the start of the academic year. During the fall and spring terms, and with the director's approval, students choose their remaining 22 credits from more than 100 Juris Doctor and LL.M. in Taxation courses and seminars. For admission information consult the *College of Law Prospectus* or write to the Comparative Law Office P.O. Box 117643, University of Florida, Gainesville, FL 32611-7643 USA.

LAW 7801: Introduction to the Legal System of the United States for LL.M. in Comparative Law, Part II

LAW 7805: Legal Writing and Research for LL.M. in Comparative Law

LAW 7906: Directed Research for LL.M. in Comparative Law

LAW 7932: Introduction to the Legal System of the United States for LLM in Comparative Law, Part I

Environmental and Land Use Law Department

Director and Graduate Coordinator: Christine A. Klein

Complete faculty listing by department: [Follow this link.](#)

Florida's sensitive, varied and beautiful natural environment makes the University of Florida a natural choice for students who want to focus on the national and global issues of land use and environmental law. Florida provides a perfect setting to study first-hand the efforts to reconcile growth and conservation.

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

For more information, please see the program page below and our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>.

LAW 7493: LL.M. Research: Selected Topics in Environmental & Land Use Law

LAW 7916: Research Methods and Environmental Land Use Law

Taxation Department

Chair and Graduate Coordinator: M. K. Friel.

Complete faculty listing by department: [Follow this link.](#)

Graduate study in the field of taxation leading to the Master of Laws in Taxation degree or to the Master of Laws in International Tax degree is available in the College of Law.

Applicants for admission to the Graduate School for these degrees must hold a law degree from an accredited law school or in the case of international students, from a recognized foreign university but need not submit scores on the Graduate Record Examination. For further information concerning admission consult the *Graduate Tax Program Catalog*, or write the Tax Office, 320 Holland Law Center.

LAW 7602: Taxation of Property Transactions

LAW 7604: Timing Issues in Taxation

LAW 7611: Corporate Taxation I

LAW 7613: Corporate Taxation II

LAW 7614: U.S. International Tax I

LAW 7615: U.S. International Tax II

LAW 7617: Partnership Taxation

LAW 7623: Taxation of Gratuitous Transfers

LAW 7625: Income Taxation of Trusts and Estates

LAW 7626: Estate Planning

LAW 7632: Deferred Compensation

LAW 7633: Tax Exempt Organizations

LAW 7640: Civil Tax Procedure

LAW 7641: Procedures in Tax Fraud Cases

LAW 7650: State and Local Taxation

LAW 7660: Tax Policy

LAW 7680: Comparative Taxation

LAW 7682: Income Tax Treaties

LAW 7683: Transfer Pricing

LAW 7905: Independent Study

LAW 7910: Supervised Research

LAW 7911: Federal Tax Research

LAW 7931: Current Federal Tax Problems

Graduate Certificates and Interdisciplinary Concentrations and Research Centers

The information in this catalog is current as of July 2013. Please contact individual programs for any additional information or changes.

[Certificate Programs](#)

[Interdisciplinary Concentrations](#)

[Additional Interdisciplinary Research Centers and Units](#)

Medicine Courses - filtered

College of Medicine

Dean: M.L. Good

Complete faculty listings: [Follow this link.](#)

The College of Medicine offers training opportunities leading to either the Doctor of Philosophy or Master of Science degree in medical sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For more information, please see our website: <http://med.ufl.edu>.

The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings. For further information, visit <http://idp.med.ufl.edu>.

[Departments and Programs within the College of Medicine](#)

[College of Medicine Courses](#)

ENU 6652: Clinical Rotation in Diagnostic Radiology

ENU 6657: Diagnostic Radiological Physics

GMS 5604: Medical Human Embryology

GMS 5605: Medical Anatomy

GMS 5606L: Medical Anatomy Lab

GMS 5613: Medical Human Anatomy by Diagnostic Imaging

GMS 5630: Medical Histology

GMS 5905: Special Topics in Biomedical Sciences

GMS 6001: Fundamentals of Biomedical Sciences I

GMS 6003: Fundamentals of Graduate Research and Professional Development

GMS 6004: IDP Practical Laboratory

GMS 6005: Fundamentals of Developmental Biology

GMS 6006: Fundamentals of Immunology and Microbiology

GMS 6007: Fundamentals of Neuroscience

GMS 6008: Fundamentals of Physiology and Functional Genomics

GMS 6009: Principles of Drug Action

GMS 6010: Yeast Genetics

GMS 6011: Mouse Genetics

GMS 6012: Human Genetics

GMS 6013: Developmental Genetics

GMS 6014: Applications of Bioinformatics to Genetics

GMS 6015: Human Genetics II

GMS 6017C: In-Vitro Fertilization Laboratory Practicum A

GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum

GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System

GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience

GMS 6023: Principles of Neuroscience III – Molecular Neuropharmacology and its Clinical Application

GMS 6024: Principles of Neuroscience IV: Neural Integration & Control

GMS 6029: Brain Journal Club

GMS 6031: Molecular Immunology

GMS 6032: Mechanisms of Host Defense

GMS 6033: Immunity in Health and Disease

GMS 6034: Advanced Virology I: Genetics and RNA

GMS 6035: Advanced Virology II: RNA Viruses

GMS 6036: Molecular Virology III: DNA Viruses

GMS 6038: Bacterial Genetics and Physiology

GMS 6039: Bacterial Pathogenesis

GMS 6040: Host-Pathogen Interactions

GMS 6051: Signal Transduction

GMS 6052: Ion Channels of Excitable Membranes

GMS 6053: Cancer Biology and Therapeutics

GMS 6059: Gene Therapy from Bench to Bedside

GMS 6061: Nuclear Structure and Dynamics

GMS 6062: Protein Trafficking

GMS 6063: Mechanisms of Aging

GMS 6064: Tumor Biology

GMS 6065: Fundamentals of Cancer Biology

GMS 6072: Neuroendocrinology and Neuroimmunology

GMS 6073: Developmental Neurobiology

GMS 6078: Synaptic Function and Plasticity

GMS 6079: Computers in Biology

GMS 6080: Basic Magnetic Resonance Imaging

GMS 6081: Biological Imaging Techniques

GMS 6090: Research in Medical Sciences

GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences

GMS 6099: Foundations in Aging and Geriatric Research

GMS 6121: Infectious Diseases

GMS 6140: Principles of Immunology

GMS 6145: Immunology of Gene Transfer

GMS 6151: Genetic Analysis Using Model Systems

GMS 6155: DNA Microarray Data Analysis

GMS 6160: Introduction to Oral Biology I

GMS 6161: Introduction to Oral Biology II

GMS 6173: Stomatognathic System: Form and Function

GMS 6176: Biology of Tooth Supporting Structures I

GMS 6177: Biology of Tooth Supporting Structures II

GMS 6181: Special Topics in Microbiology

GMS 6191: HIV Journal Club

GMS 6193: Research Conference in Oral Biology

GMS 6196: Virology Journal Club

GMS 6198: Bacterial Pathogenesis Journal Club

GMS 6223: Drosophila Neurogenetics: from Development to Function

GMS 6231: Genomics and Bioinformatics

GMS 6232: Advanced Applications of Bioinformatics in Genetics

GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens

GMS 6290: Genetics/Genomics Program Graduate Seminar

GMS 6331: Stem Cell Biology

GMS 6335: Advanced Stem Cell Biology: Tissue Engineering

GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine

GMS 6337: B Cell Development in Health and Disease

GMS 6381: Special Topics in Pathology

GMS 6382: Special Topics in Immunology

GMS 6383: Current Topics in Immunotherapy

GMS 6394: Seminar in Mammalian Genetics

GMS 6400C: Principles of Physiology

GMS 6403: Advanced Endocrinology

GMS 6405: Fundamentals of Endocrine Physiology

GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology

GMS 6408: Fundamentals of Renal Physiology

GMS 6410: Physiology of the Circulation of Blood

GMS 6411: Fundamentals of Cardiovascular Physiology

GMS 6412: Human Physiology for Biomedical Engineering

GMS 6413: Advances in Hypertension Research

GMS 6414: Advanced Renal Physiology

GMS 6415: Fundamentals of Gastrointestinal Physiology

GMS 6416: Human Endocrinology and Anatomy of Reproduction

GMS 6417: Integrative Aging Physiology

GMS 6421: Cell Biology

GMS 6471: Fundamentals of Physiology and Functional Genomics I

GMS 6472: Fundamentals of Physiology and Functional Genomics II

GMS 6473: Fundamentals of Physiology and Functional Genomics III

GMS 6483: Theories of Aging

GMS 6484: Geriatric and Age Related Diseases

GMS 6485: Population Based Research on Aging

GMS 6486: Fundamentals of Biological Aging

GMS 6490C: Research Methods in Physiology

GMS 6491: Journal Club in Physiology

GMS 6495: Seminar in Physiology

GMS 6496: Recent Advances in Physiology

GMS 6497: Seminar on Vision

GMS 6500: Introduction to Pharmacology

GMS 6506: Biologic Drug Development

GMS 6563: Molecular Pharmacology

GMS 6590: Seminar in Pharmacology

GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes

GMS 6607C: Musculoskeletal Systems

GMS 6609: Advanced Gross Anatomy

GMS 6621: Vision

GMS 6622: Mitochondrial Biology in Aging and Disease

GMS 6635: Organization of Cells and Tissues

GMS 6642: Morphogenesis: Organ Systems I

GMS 6643: Morphogenesis: Organ Systems II

GMS 6644: Apoptosis

GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation

GMS 6683: Fundamentals of Vascular Physiology and Pathology

GMS 6690: Molecular Cell Biology Journal Club

GMS 6691: Special Topics in Cell Biology and Anatomy

GMS 6692: Research Conference in Anatomy and Cell Biology

GMS 6705: Functional Human Neuroanatomy

GMS 6709: Current Topics in Vision

GMS 6711: Neurobiology of Pain

GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes

GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects

GMS 6719: Fundamentals of Computational Neuroscience

GMS 6735: Neuropharmacology

GMS 6750: Molecular Pathobiology of Neural Disease

GMS 6760: Comparative Biology of Cell Signaling

GMS 6771: Clinical Neuroscience of Aging

GMS 6780: Addiction: Neuroscience and Trends

GMS 6791: Visual Neuroscience Journal Club

GMS 6792: Neuroscience Graduate Research Seminar

GMS 6800: Fundamentals of Epidemiology

GMS 6804: Medical Informatics

GMS 6810: Intermediate Epidemiology Methods

GMS 6814: Molecular and Genetic Epidemiology

GMS 6820: Advanced Epidemiology Methods

GMS 6845: Clinical & Translational Research Practicum

GMS 6872: Science and Ethics of in Vitro Fertilization

GMS 6876: Law & Ethics of Aging

GMS 6881: Special Studies in Epidemiology and Health Policy Research

GMS 6883: Practicum Experience in Epidemiology and Health Policy

GMS 6895: CTS Journal Club

GMS 6901: Seminar in Biology of Disease

GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists

GMS 6905: Independent Studies in Medical Sciences

GMS 6910: Supervised Research

GMS 6920: Genetics Journal Colloquy

GMS 6921: Immunology/Microbiology Journal Colloquy

GMS 6931: Ethical and Policy Issues in Clinical Research

GMS 6940: Supervised Teaching

GMS 6970: Individual Study

GMS 6971: Research for Master's Thesis

GMS 7001: Fundamentals of Biomedical Science Education

GMS 7002: Practicum in Biomedical Science Education

GMS 7003: Responsible Conduct of Biomedical Research

GMS 7179: Journal Colloquy

GMS 7192: Journal Colloquy

GMS 7593: Topics in Pharmacology and Toxicology

GMS 7794: Neuroscience Seminar

GMS 7795: Special Topics in Neuroscience

GMS 7979: Advanced Research

GMS 7980: Research for Doctoral Dissertation

VME 6505: Autoimmunity

Biochemistry and Molecular Biology Department

Chair: James B. Flanagan.

Graduate Coordinator: Kevin Brown

Complete faculty listing by department: [Follow this link.](#)

Biochemistry and Molecular Biology Department faculty mentor Ph.D. students in the College of Medicine interdisciplinary program (IDP) in medical sciences. Students interested in pursuing a doctoral degree can view specific features of the biochemistry and molecular biology concentration at <http://biochem.med.ufl.edu/> and <http://idp.med.ufl.edu>. For admission information, visit the IDP website. Department faculty also mentor Ph.D. students in other college programs and participate actively in the research and teaching functions of various centers such as the Center for Epigenetics and the Center for Structural Biology. The Department offers a wide variety of courses for graduate students studying in the life sciences. The research expertise of the faculty spans the areas from cell biology, metabolism, and molecular biology to physical biochemistry/structural biology. Current research interests include viral protease inhibitors, viral RNA replication, bioenergetics and proton translocation, X-chromosome structure and function, cytoskeletal assembly and dynamics, enzyme mechanism and control, chromatin structure, gene expression and regulation, mitochondrial biogenesis and evolution, the genetics of inherited disease, nutrient membrane transporters, protein site-directed mutagenesis, ribosome structure and function, signal transduction, structural biology and dynamics of macromolecules, protein-nucleic acid interactions, transgenic animal models, and virus crystal structure. Prospective graduate students should have adequate training in chemistry and biology. Minor deficiencies may be made up immediately after entering graduate school. Previous undergraduate experience in a research laboratory is highly recommended. Doctoral students are required to take a core IDP course in fall term of their first year; and beginning in spring term, students take advanced classes in areas of interest. Specific advanced-level courses may be recommended by the student's supervisory chair and committee. The following courses are open to all graduate students and advanced undergraduates. Additional courses are listed in the Advanced Concentration in Biochemistry and Molecular Biology section under Medical Sciences.

BCH 5413: Mammalian Molecular Biology and Genetics

BCH 6040: Research Discussion in Biochemistry and Molecular Biology

BCH 6107: Biophysical Techniques in Proteomics and Protein Science

BCH 6206: Advanced Metabolism

BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control

BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism

BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism

BCH 6415: Advanced Molecular and Cell Biology

BCH 6740: Physical Biochemistry/Structural Biology

BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems

BCH 6744: Molecular Structure Determination by X-ray Crystallography

BCH 6744L: Molecular Structure Determination by X-Ray Crystallography Laboratory

BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy

BCH 6745L: Molecular Structure and Dynamics by NMR Spectroscopy Laboratory

BCH 6746: Structural Biology: Macromolecular Structure Determination

BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics

BCH 6749C: Numerical Methods in Structural Biology

BCH 6875: Crystallography and Cryo-Electron Microscopy

BCH 6876: Recent Advances in Membrane Biology

BCH 6877: Recent Advances in Structural Biology

BCH 6878: Recent Advances in Cytoskeletal Processes

BCH 6905: Independent Studies in Biochemistry and Molecular Biology

BCH 6910: Supervised Research

BCH 6936: Biochemistry Seminar

BCH 6971: Research for Master's Thesis

BCH 7410: Advanced Gene Regulation

BCH 7412: Epigenetics of Human Disease and Development

BCH 7414: Advanced Chromatin Structure

BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics

BCH 7979: Advanced Research

BCH 7980: BioChem Doctoral Research

GMS 6195: Epigenetics Journal Club

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: P. Qiu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/curriculum-overview/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/ms-curriculum-overview/>.

GMS 6818: Design and Conduct Clinical Trials I

GMS 6861: Applied Biostatistics I

GMS 6862: Applied Biostatistics II

GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases

GMS 6813: Clinical Trials

GMS 6819: Design and Conduct Clinical Trials II

GMS 6827: Advanced Clinical Trial Methods

GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences

GMS 6882: Directed Readings in Epidemiology and Health Policy

GMS 6884: Research in Epidemiology and Health Policy

PHC 6008: Cardiovascular Epidemiology

PHC 6034: Epidemic Investigation

PHC 7007: Cancer Epidemiology

PHC 7902: Epidemiology Supervised Research Writing Circle

PHC 7934: Seminar I: Epidemiology Past, Present, and Future

Health Outcomes and Policy Department

[College of Medicine](#)

Chair: Betsy Shenkman

Graduate Coordinator: Jill Hemdon

Complete faculty listing by department: [Follow this link.](#)

Students can pursue either a Master of Science degree or a Graduate Certificate.

There is increasing emphasis on assessing health outcomes throughout the lifespan in a variety of health care and community settings. Nationally, the National Institute of Health and other federal and state agencies focus on the development of evidence-based programs to promote health, improve health care delivery, and enhance health outcomes.

Outcomes research generates evidence that informs health care program design in clinical and community settings, the promotion of effective clinical and community interventions, quality of care, cost-effective and clinically appropriate choices for patients in allocation of health care resources (clinical effectiveness), and incorporation of best practice models into health-related programs and policies. Outcomes research also provides mechanisms to understand how to translate research into practice and policy, how to improve the quality and efficiency of health programs, and how to achieve equitable and appropriate delivery of health programs and clinical care, particularly for underserved and vulnerable populations.

Our graduate programs are designed to train professionals in the health care and health research fields about the science that supports the development and evaluation of evidence-based clinical

and community-based programs focused on improving health outcomes. Further, our programs emphasize methods for translating research into practice and policy. The unique combination of courses offered through these graduate programs will give trainees the tools needed to examine health outcomes and policies in a variety of settings across different age spans and to examine the individual, social, health system, and health policy factors that influence health outcomes.

In addition to traditional graduate students, both programs are available to medical students, post-doctoral students, fellows, residents, Ph.D. students, and junior faculty.

GMS 6802: Examining Health Outcomes for Chronic Diseases in Clinical and Community-based Research

GMS 6803: Data Management for Clinical Research

GMS 6811: Grant Writing Skills for Clinical Research

GMS 6812: Cancer Health Outcomes Assessment

GMS 6816: Pediatric Child Health Outcomes Assessment for Clinical and Community-Based Research

GMS 6821: Measuring and Analyzing Health Outcomes I

GMS 6822: Measuring and Analyzing Health Outcomes II

GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1

GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2

GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3

GMS 6826: Advanced Design and Methodology for Case-Control Studies in Clinical Research

GMS 6829: Longitudinal Research Design

GMS 6830: Health Outcomes Research and Policy Development

GMS 6832: Economic Methods for Evaluating Value in Health

GMS 6833: Health Care Policy and Vulnerable Populations

GMS 6834: Health Policy and Formulation of Payment Mechanisms for Health Care

GMS 6835: Health Policy Issues in Children's Health

GMS 6842: Translational Research Methods

GMS 6844: Experimental and Quasi-Experimental Research Designs for Community Settings

GMS 6846: Meta-Analysis in Clinical, Health Services Research and Public Health

GMS 6851: Health Outcomes Research

GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies

GMS 6853: Applied Topics in Dissemination and Implementation Science

GMS 6854: Applied Topics in Clinical Effectiveness Research

GMS 6885: Research Designs in Health Outcomes and Policy

GMS 6893: Clinical and Translational Science Seminar Series

GMS 6896: Health Outcomes and Policy Seminar

GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research

GMS 7887: Health Outcomes & Policy PhD Research Seminar

Molecular Genetics and Microbiology Department

Chair: H. V. Baker.

Graduate Coordinator: A. S. Lewin.

Complete faculty listing by department: [Follow this link.](#)

The Graduate Faculty of the Department of Molecular Genetics and Microbiology participate in the interdisciplinary program (IDP) in medical sciences, leading to the Doctor of Philosophy degree, with specialization in one of the six advanced concentration areas of the IDP (see *Medical Sciences*). Departmental areas of research associated with the IDP focus on topical problems in molecular genetics, viral genetics, and viral and bacterial pathogenesis. Faculty in the Department of Molecular Genetics and Microbiology also participate in the M.S. programs (see *Medical Sciences*). In addition to courses associated with the IDP, the Department of Molecular Genetics and Microbiology maintains the courses listed below.

Biotechnology: This Master of Science program is for students seeking careers in the biomedical industry as research or managerial associates; students seeking careers as teachers or educators at any level, but primarily high school or junior college; or students seeking an in-depth understanding of modern biology and scientific research as an end in itself or in preparation for further graduate study. The foundation of the M.S. program is a basic understanding of molecular and cell biology and the performance of a high-quality research project, culminating in a thesis, under the direction of a skilled mentor, with supervision by a committee composed of members of the Graduate Faculty. Specialization may be in any of the fields of research being pursued at the College of Medicine including but not limited to molecular genetics, gene therapy, bacterial or viral pathogenesis, protein structure, toxicology, mammalian genetics, wound healing, and congenital eye diseases.

For more information contact the Master's Program Coordinator, Molecular Genetics and Microbiology, P.O. Box 100266, College of Medicine, Gainesville, FL 32610, Telephone (352)392-3314.

BME 5704: Advanced Computational Methods for Biomedical Engineering

GMS 6153: Advanced Bacterial Genetics

GMS 6169: Antimicrobial Strategies

GMS 6190: Seminar

GMS 6221: Ethics in Genetics

GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics

GMS 6251: Molecular Therapy I – Vectors and Molecular Mechanisms

GMS 6252: Molecular Therapy II – Disease Targets and Applications

GMS 6253: Molecular Therapy III – Immunology of Gene Transfer

GMS 6338: Recent Advances in Cancer Metastasis

GMS 6943: Master's Translational Biotechnology Internship

GMS 7093: Introduction to Clinical and Translational Research

GMS 7191: Research Conference

GMS 7194: Biotechnology Seminar

PCB 5235L: Experiments in Immunology

Nursing Courses - filtered

College of Nursing

Dean: A.M. McDaniel

Complete faculty listings: [Follow this link.](#)

The nationally ranked College of Nursing offers the graduate degrees of Master of Science in Nursing, Doctor of Nursing Practice, and Doctor of Philosophy in nursing sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Students may request special review by the College of Nursing Admissions Committee if they believe they are strong candidates for graduate study but do not fully meet all criteria.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal. Additional offerings include

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader

For additional information about the Nursing programs, visit <http://www.nursing.ufl.edu> or call (352) 273-6331.

[College of Nursing Courses](#)

NGR 5934: Cultural Influences on Health Care

NGR 6002C: Advanced Health Assessment

NGR 6006: Principles of Clinical Outcomes Management

NGR 6052C: Adult Nursing: Diagnostics and Procedures

NGR 6054C: Advanced Neonatal Health Assessment and Diagnostic Reasoning

NGR 6101: Theory and Research for Nursing

NGR 6140: Physiology and Pathophysiology for Advanced Nursing Practice

NGR 6172: Pharmacotherapeutics for Advanced Practice Nursing

NGR 6230C: Acute Care Nurse Practitioner: Diagnostics and Procedures for the Critically Ill

NGR 6240: Primary Care for Adults

NGR 6241: Adult Nursing: Common Health Problems

NGR 6241L: Adult Nurse Practitioner: Common Health Problems Laboratory

NGR 6243: Acute Care Nurse Practitioner: Critically Ill Adult

NGR 6243L: Acute Care Nurse Practitioner: Critically Ill Adult Laboratory

NGR 6244: Adult Nursing: Chronic Health Problems

NGR 6244L: Adult Nurse Practitioner: Chronic Health Problems Laboratory

NGR 6247: Complex High Prevalence Illnesses Of Adults

NGR 6247L: Complex High Prevalence Illnesses Of Adults

NGR 6248: Adult Acute Care Nurse Practitioner 3

NGR 6248L: Adult Acute Care Nurse Practitioner 3

NGR 6255: Advanced Nursing Care of Older Adult

NGR 6301: Advanced Child Health Nursing I

NGR 6301L: Advanced Child Health Nursing I

NGR 6302: Advanced Child Health Nursing II

NGR 6302L: Advanced Child Health Nursing II

NGR 6307: Advanced Child Health Nursing III

NGR 6307L: Advanced Child Health Nursing III

NGR 6320C: Neonatal Care I

NGR 6321C: Neonatal Care II

NGR 6323C: Neonatal Care III

NGR 6350: Family Nurse Practitioner: Women, Adolescents, And Children

NGR 6350L: Family Nurse Practitioner: Women, Adolescents, And Children

NGR 6360C: Nurse-Midwifery Care I

NGR 6361C: Nurse-Midwifery Care II

NGR 6364: Seminar: The Nurse Midwife

NGR 6371: Pharmacotherapeutics for Advanced Neonatal Nursing

NGR 6372C: Advanced Pediatric Procedures and Diagnostics

NGR 6500C: Individual and Family Therapy for Psychiatric-Mental Health Nursing

NGR 6501C: Group Therapy and Community Interventions for Psychiatric-Mental Health Nursing

NGR 6538: Psychopharmacology for Psychiatric Nursing

NGR 6612: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)

NGR 6612L: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)

NGR 6636: Wellness Promotion and Disease Prevention

NGR 6726: Management of the Care Environment II

NGR 6727: Management of the Care Environment I

NGR 6740: Role Transition: Issues in Advanced Practice Nursing

NGR 6770: Leadership/Role of Clinical Nurse Leader

NGR 6771: Clinical Nurse Leader Role Seminar

NGR 6773: Clinical Nurse Leader Residency/Internship

NGR 6815: Foundations of Qualitative Research in Nursing

NGR 6840: Applied Statistical Analysis I

NGR 6845: Applied Statistical Analysis II

NGR 6850: Research Methods and Utilization for Nursing

NGR 6892: Health Care Policy and Organizational Delivery

NGR 6905: Individual Study

NGR 6930: Special Topics in Nursing

NGR 6941: Practicum in Nursing

NGR 6944: Individual Clinical Practice

NGR 6970: Research for Master's Project

NGR 6971: Research for Master's Thesis

NGR 7003: Advanced Diagnostic Reasoning

NGR 7115: Philosophy of Nursing Science

NGR 7124: Theory Development in Nursing

NGR 7176: Advanced Topics in Pharmacotherapeutics in Nursing

NGR 7700: Leadership and Role Development in Advanced Nursing Practice

NGR 7709: Nurse Scientist and Scholar I

NGR 7814: Field Methods for Health Related Research

NGR 7816: Quantitative Research Design and Measurement in Nursing

NGR 7827: Outcomes Research and Evaluation

NGR 7831: Quality Indicators in Nursing Systems

NGR 7835: Nurse Scientist and Scholar II

NGR 7871: Nursing Informatics and Data

NGR 7882: Ethical Theories and Rational Decision Making in Health

NGR 7891: Health Policy and Finance in Advanced Nursing Practice

NGR 7940L: Residency in Advanced Nursing Practice

NGR 7970L: Advanced Nursing Project

NGR 7979: Advanced Research

NGR 7980: Research for Doctoral Dissertation

Pharmacy Courses - filtered

College of Pharmacy

Dean: J. Johnson

Complete faculty listings: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy and the Master of Science in Pharmacy degrees in the pharmaceutical sciences, with concentrations in medicinal chemistry, pharmacodynamics, pharmaceutical outcomes and policy, and pharmacy which includes pharmaceuticals. There are two additional concentrations in the Master of Science in Pharmacy program in pharmaceutical sciences: forensic drug chemistry, and forensic serology and DNA. Both offered in a distance-learning, nonthesis format. Complete descriptions of the minimum requirements for the M.S.P. and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

The Graduate Faculty and courses offered are listed under department headings in this catalog. The courses listed below consist of seminar, supervised teaching and research, and research for thesis or doctoral dissertation. These courses are offered in each of the departments.

Students who wish to pursue graduate studies in the College of Pharmacy must have an undergraduate degree in pharmacy, chemistry, biology, or related sciences.

Satisfactory completion of a thesis or dissertation based on research is a requirement for a graduate degree in the pharmaceutical sciences.

Inquiries regarding applications and general information about the graduate programs are processed through the

Office of Research and Graduate Studies,
College of Pharmacy,
P.O. Box 100484,
Health Science Center.

For more information, please see our website: <http://pharmacy.ufl.edu>.

[Departments and Programs within the College of Pharmacy](#)

[College of Pharmacy Courses](#)

PHA 5171: Pharmaceutical Biotechnology

PHA 6115: Equilibria, Complexations, and Interactions of Drugs

PHA 6235: Advanced Pharmaceutical Law

PHA 6910: Supervised Research

PHA 6935: Selected Topics in Pharmacy

PHA 6936: Advanced Topics in Pharmaceutical Sciences

PHA 6938: Research Seminar

PHA 6940: Supervised Teaching

PHA 6971: Research for Master's Thesis

PHC 6404: Gender, Sexuality, and Health

PHC 6913: Biostatistics Project

PHC 6930: Integrated Public Health Seminar

Medicinal Chemistry Department

[College of Pharmacy](#)

Chair: M. O. James.

Graduate Coordinator: H. Luesch

Complete faculty listing by department: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy degree in pharmaceutical sciences with a concentration in medicinal chemistry. Medicinal chemistry is a unique blend of the physical

and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active research include organic synthesis of medicinal agents, metal chelate design, prodrugs and topical drug delivery, drug metabolism, molecular toxicology, molecular biology, combinatorial chemistry, neurochemistry, analytical chemistry, molecular modeling, natural products, and drug discovery.

The applicant should have an undergraduate degree in pharmacy, chemistry, biology, or premedical sciences. A background in calculus and physical and organic chemistry is required. In addition to graduate medicinal chemistry courses in the College of Pharmacy, graduate courses in chemistry and biochemistry are required for the program.

The College also offers the Master of Science in Pharmacy degree in pharmaceutical sciences (nonthesis option) with concentrations in both forensic drug chemistry and forensic serology and DNA in a distance learning format. Minimum requirements for the M.S.P. and Ph.D. degrees are described in the *General Information* section of this catalog.

The Department participates in the interdisciplinary concentration in toxicology. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

PHA 5475: Synthesis of Prodrugs

PHA 6354: Natural Medicinal Products

PHA 6356: Structure Determination of Complex Natural Products

PHA 6357: Herbal & Dietary Supplements

PHA 6417: Pharmaceutical Analysis II

PHA 6425: Drug Biotrans and Molecular Mechanisms of Toxicity

PHA 6432: Fundamentals of Pharmaceutical Chemistry

PHA 6444: Pharmaceutical Chemistry I

PHA 6447: Drug Design

PHA 6448: High Throughput Drug Discovery

PHA 6471: Synthetic Medicinal Chemistry

PHA 6534: Toxicology of Chemical Weapons

PHA 6535: Principles of Nucleotide Activity

PHA 6543: Pharmaceutical Chemistry II

PHA 6556: Introduction to Clinical Toxicology

PHA 6557: Clinical Toxicology 1

PHA 6840: Medicinal Chemistry of Drugs of Abuse

PHA 6850: Principles of Forensic Science

PHA 6851: Forensic Analysis of DNA

PHA 6852: Mammalian Molecular Biology

PHA 6853: Biological Evidence and Serology

PHA 6854: Forensic Immunology

PHA 6855: Forensic Genetics

PHA 6856: Blood Spatter and Distribution

PHA 6905C: Research Procedures in Medicinal Chemistry

PHA 6934: Seminar in Medicinal Chemistry

Pharmaceutics Department

Chair: H. C. Derendorf.

Graduate Coordinator: A. Palmieri III.

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmaceutics offers the Doctor of Philosophy in pharmaceutical sciences. Pharmaceutics is the scientific endeavor concerned with the design, formulation, evaluation, and use of drug delivery systems. A foundation in physical chemistry, chemistry, mathematics, and in the life sciences, is necessary. Its domain extends from studies of the physiochemical properties of drugs and related molecules to investigations of the mechanisms of physiological processes affecting drug delivery and therapeutic effectiveness. The Department's general focus involves studying the design and evaluation of traditional and novel dosage forms for delivering drug molecules and macromolecules. The design involves physical chemical studies and development of analytical techniques involving spectroscopy and chromatography. Evaluation includes development of sensitive analytical techniques for the drug in biological fluids and subsequent biopharmaceutical and clinical pharmacokinetic studies.

PHA6116: In Vivo and In Vitro Stability of Drugs

PHA6118: Molecular Diversity

PHA6125: Pharmacokinetics and Biopharmaceutics

PHA6170C: Pharmaceutical Product Formulation

PHA6183: Pharmaceutical Gene Delivery

PHA6185: Pharmaceutical Drug Development

PHA6416: Pharmaceutical Analysis I

PHA6427: Pharmacogenetics of Drug Metabolism

PHA6440: Seminar in Drug Discovery

PHA6449: Pharmacogenomics

PHA6630: Medication Therapy Management: A Hematologic Focus

PHA6631: Foundations of Medication Therapy Management I

PHA6632: Foundations of Medication Therapy Management II

PHA6633: Medication Therapy Management: A Cardiovascular Focus

PHA6634: Medication Therapy Management: An Endocrine Focus

PHA6635: Medication Therapy Management: A Renal Focus

PHA6636: Medication Therapy Management: A Gastrointestinal Focus

PHA6637: Medication Therapy Management: A Psychiatric Focus

PHA6638: Medication Therapy Management: A Neurologic Focus

PHA6639: Medication Therapy Management: A Respiratory Focus

PHA6894: Introduction to Graduate Studies

PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Department

Chair: M. Keller-Wood.

Interim Graduate Coordinator: Joanna Peris

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see *Interdisciplinary Graduate Studies* in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

PHA 5531: Neurotoxicology

PHA 6508: Systems Physiology and Pathophysiology I

PHA 6509: Systems Physiology and Pathophysiology II

PHA 6512L: Experiential Research Training in Pharmacodynamics

PHA 6521C: Research Techniques in Pharmacodynamics

PHA 6522L: ICBR Molecular Techniques Laboratory

PHA 6540: Neurochemical Foundation of Pharmacodynamics

PHA 7939: Journal Colloquy in Pharmacodynamics

Pharmaceutical Outcomes and Policy Department

Chair: R. Segal

Graduate Coordinator: A. Winterstein

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree. Complete descriptions of the requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog.

PHA 5270: Health Care and Patient Safety

PHA 5271: Health Care Risk Management

PHA 5272: Risk Management, Liability and Compliance

PHA 6206: Introduction to Pharmaceutical Microeconomics

PHA 6227: Institutional Pharmacy Leadership I

PHA 6228: Institutional Pharmacy Leadership II

PHA 6236: Health Sciences Liability Law

PHA 6250: Patient Responsibility in Health Care

PHA 6264: Pharmacoeconomics and Health Technology Assessment

PHA 6265: Introduction to Pharmaceutical Outcomes and Policy I

PHA 6266: Introduction to Pharmaceutical Outcomes and Policy II

PHA 6268: Pharmacoepidemiology and Patient Safety

PHA 6269: Pharmaceutical Products and Public Policy

PHA 6273: Structure, Process, and Outcomes of Regulation

PHA 6274: Federal Regulations of Drugs and Pharmacy

PHA 6275: Federal Regulations of Controlled Substances

PHA 6276: Regulating Pharmaceutical Access and Costs

PHA 6277: Ethics in Drug Development Production and Use

PHA 6278: State Regulation of Drugs and Pharmacy

PHA 6279: Pharmaceutical Outcomes and Policy Seminar

PHA 6280: Medicare and Medicaid

PHA 6281: Practices and Procedures of Administrative Agencies

PHA 6282: Pharmaceutical Policy Process

PHA 6283: Commercial Applications of Pharmacoeconomics

PHA 6286: Pharmaceutical Microeconomics

PHA 6287: Pharmaceutical Health Economics

PHA 6288: Critical Review of Research Methods

PHA 6289: Regulating Clinical Research

PHA 6290: Pharmaceutical Fraud and Abuse

PHA 6291: Pharmaceutical Health Care Systems

PHA 6717: Measurement in Pharmacy Administration Research

PHA 6793: Evidentiary Basis of Pharmaceutical Use

PHA 6796: Study Design in Pharmaceutical Outcomes & Policy Research

PHA 6798: The Use and Abuse of Statistics in Drug Regulation

PHA 6799: Patient Safety Program Evaluation

PHA 6805: Applied Data Interpretation and Reporting of Findings in Pharmacy

PHA 6806: Pharmacoeconomic Modeling

PHA 6860: Prevention of Pharmaceutical Crimes

PHA 6891: Introduction to Pharmacoepidemiology

PHA 6892: Practices and Procedures of the IRB

PHA 6893: Research Ethics

PHA 6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology

PHA 6937: Topics in Pharmaceutical Administration

Pharmacotherapy and Translational Research Department

For a full list of faculty, please [follow this link](#).

Description to be added

PHA 7979: Advanced Research

PHA 7980: Research for Doctoral Dissertation

PHPH college-owned courses

College of Public Health and Health Professions

Dean: Michael G. Perri

Executive Associate Dean: Stephanie L. Hanson

Complete faculty listings: [Follow this link](#).

The University of Florida College of Public Health and Health Professions has established a new educational model that focuses on the integration of public health problem-solving and individual patient care. The college's mission is to preserve, promote and improve the health and well-being of populations, communities and individuals. To fulfill this mission, we foster collaborations among public health and the health professions in education, research and service.

For more information, please see our website: <http://phhp.ufl.edu>

[Departments and Programs within the College of Public Health and Health Professions](#)

[College of Public Health and Health Professions Courses](#)

HSC 5938: Special Topics

HSC 6905: Independent Study

HSC 6939: Special Topics

HSC 6940: Supervised Teaching

PHC 6000: Epidemiology Methods I

PHC 6001: Principles of Epidemiology in Public Health

PHC 6002: Epidemiology of Infectious Diseases

PHC 6003: Epidemiology of Chronic Diseases and Disability

PHC 6009: Biology and Epidemiology of HIV/AIDS

PHC 6011: Epidemiology Methods II

PHC 6016: Social Epidemiology in Public Health

PHC 6036: Environmental Infectious Diseases: A Molecular Approach

PHC 6050: Statistical Methods for Health Sciences Research I

PHC 6102: Introduction to Public Health Administrative Systems

PHC 6103: Systems Thinking for Public Health

PHC 6104: Evidence-Based Management of Public Health Programs

PHC 6146: Public Health Program Planning and Evaluation

PHC 6153: Public Policy and Aging

PHC 6183: Disaster Preparedness and Emergency Response

PHC 6194: Spatial Epidemiology

PHC 6220: Overview of Long-Term Care

PHC 6251: Assessment and Surveillance in Public Health

PHC 6301: Aquatic Systems and Environmental Health

PHC 6309: Environmental Justice Issues in Public Health

PHC 6312: Water Quality and Human Health

PHC 6313: Environmental Health Concepts in Public Health

PHC 6317: Risk Communication for Public Health Practice

PHC 6346: Occupational and Environmental Health Among Agriculture Workers

PHC 6370: Public Health Biology

PHC 6403: Adolescence, Risk Taking and Health

PHC 6410: Psychological, Behavioral, and Social Issues in Public Health

PHC 6413: Critical Incidents and Violence in Communities

PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology

PHC 6419: Biomedical and Psychological Aspects of Very Late Life

PHC 6421: Public Health Law and Ethics

PHC 6441: Health Disparities in the United States

PHC 6445: Global Public Health and Development II

PHC 6447: Ecology of HIV/Aids in the Rural South

PHC 6512: Environmental Management of Vector-Borne Diseases

PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety

PHC 6519: Zoonotic Diseases in Humans and Animals

PHC 6520: Foodborne Diseases

PHC 6530: Public Health Issues of Mothers and Children

PHC 6543: Community Practice of Behavioral Health Risk Prevention

PHC 6544: Health Behavior Interventions in Practice

PHC 6561: Public Health Laboratory Techniques

PHC 6585: Health Promotion and Disease Prevention

PHC 6586: Interventions for Public Health

PHC 6601: Seminar in Contemporary Public Health Issues

PHC 6700: Social and Behavioral Research Methods

PHC 6702: Exposure Measurement and Assessment

PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective

PHC 6762: International Public Health

PHC 6905: Independent Study

PHC 6917: Supervised Research Project

PHC 6931: Seminars in Public Health

PHC 6937: Special Topics in Public Health

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PHC 6946: Public Health Internship

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PHC 7038: Psychiatric Epidemiology

PHC 7901: Epidemiology Literature Review and Critique (Journal Club)

PHC 7979: Advanced Research

PHC 7980: Research for Doctoral Dissertation

PHT 5156: Exercise Physiology

PHT 6125C: Concepts in Clinical Biomechanics

PHT 6127C: Control of Gait and Posture

PHT 6167C: Applied Neurophysiology for Physical Therapy

PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy

PHT 6316: Neurological Aspects of Orthopedic Rehabilitation

PHT 6615L: Research Instrumentation in Physical Therapy

PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation

RSD 6110: Rehabilitation Science Theory and Application I

RSD 6112: Rehabilitation Science Theory and Application II

RSD 6114: Rehabilitation in the United Kingdom

RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science

RSD 6700: Rasch Measurement: Introduction and Application

RSD 6705: Research Methods in Rehabilitation

RSD 6706: Scientific Writing for the Rehabilitation Professional

RSD 6900: College Classroom: Teaching Process and Practice

RSD 6905: Individual Work

RSD 6910: Supervised Research

RSD 6930: Special Topics in Rehabilitation Science

RSD 6940: Supervised Teaching

RSD 7979: Advanced Research

RSD 7980: Research for Doctoral Dissertation

PHHP Courses - filtered

College of Public Health and Health Professions

Dean: Michael G. Perri

Executive Associate Dean: Stephanie L. Hanson

Complete faculty listings: [Follow this link.](#)

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PHC 6313: Environmental Health Concepts in Public Health

PHC 6317: Risk Communication for Public Health Practice

PHC 6346: Occupational and Environmental Health Among Agriculture Workers

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RSD 6905: Individual Work

RSD 6910: Supervised Research

RSD 6930: Special Topics in Rehabilitation Science

RSD 6940: Supervised Teaching

RSD 7979: Advanced Research**RSD 7980: Research for Doctoral Dissertation****Behavioral Science and Community Health Department**

Chair: B. Curbow

Complete faculty listing by department: [Follow this link.](#)

The Department of Behavioral Science & Community Health (BSCH) is one of nine academic departments housed in the School of Public Health and Health Professions at the University of Florida. This department offers a Doctor of Philosophy (PhD) degree (SBS track). For more information about the program, please visit the link below.

GEY 5935: Topics in Gerontology**GEY 6220: Overview of Geriatric Care Management****GEY 6646: Issues and Concepts in Gerontology****GEY 6905: Independent Study in Gerontology****GEY 6936: Professional Development in Gerontology/Geriatrics****PHC 6195: Health information for Diverse Populations: Theory & Methods****PHC 6316: Health, Risk, and Crisis Communication****PHC 6607: Critical Issues in Public Health****PHC 7587: Theory Development and Testing in Behavioral & Community Public Health****PHC 7752: Seminar in Instrument Development for Public Health****PHC 7907: Social and Behavioral Science Journal Club****RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling****RCS 6066: Rehabilitation Issues in Human Growth and Development****RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling****RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling****RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling****RCS 6412: Rehabilitation Counseling Theory and Practice****RCS 6470: Human Sexuality and Disability****RCS 6601: Forensic Rehabilitation Consultation I****RCS 6602: Forensic Rehabilitation Consultation II****RCS 6625: Community Counseling and Case Management****RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling****RCS 6740: Rehabilitation Research****RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation****RCS 6801: Rehabilitation Counseling Practicum****RCS 6825: Internship in Rehabilitation Counseling**

RCS 6905: Individual Work**RCS 6910: Supervised Research****RCS 6931: Special Topics****RCS 6940: Supervised Teaching****RCS 6945: Advanced Rehabilitation Counseling Practicum****RCS 6971: Research for Master's Degree****Biostatistics Department**

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Interim Chair: Samuel Wu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

PHC 6020: Clinical Trial Methods**PHC 6050C: Biostatistical Methods I****PHC 6051: Biostatistical Methods II****PHC 6053: Regression Methods for the Health and Life Sciences****PHC 6055: Biostatistical Computing Using R****PHC 6063: Biostatistical Consulting****PHC 6080: SAS for Public Health - Data****PHC 6081: SAS for Public Health - Analysis****PHC 7013: Bias in Observational Research****PHC 7056: Analysis of Longitudinal Data**

PHC 7066: Large Sample Theory

PHC 7925: Biostatistics Journal Club

STA 5223: Applied Sample Survey Methods

STA 5328: Fundamentals of Statistical Theory

STA 5503: Categorical Data Methods

STA 5701: Applied Multivariate Methods

STA 5715: Applied Survival Analysis

STA 6092: Applied Statistical Practice

STA 6166: Statistical Methods in Research I

STA 7249: Generalized Linear Models

STA 7346: Statistical Inference

Clinical and Health Psychology Department

[College of Public Health and Health Professions](#)

Department Chair: William W. Latimer.

Graduate Coordinator: S.R. Boggs.

Complete faculty listing: [Follow this link.](#)

The Department of Clinical and Health Psychology is a unit of the College of Public Health and Health Professions. The department's programs are its doctoral clinical psychology studies leading to the Ph.D. degree in psychology; an American Psychological Association accredited doctoral internship program; and postdoctoral studies and research. Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

The clinical psychology doctoral curriculum adheres to the scientist-practitioner model of education and training. Program strengths include research, education, and professional training in health care psychology, with organized areas of concentration in clinical health psychology, clinical child/pediatric psychology, neuropsychology, neurorehabilitation and clinical neuroscience, and emotion neuroscience/psychopathology. Education and training experiences are also available in rural psychology. Interested students can apply for acceptance into the Public Health Program and obtain dual M.P.H./Ph.D. degrees.

Progress in the program is determined by departmental policies which are consistent with American Psychological Association accreditation standards. The curriculum has been continuously accredited by the American Psychological Association since 1953.

Admission to the Department is through appropriate application to the Department's admission committee. A bachelor's degree is generally adequate preparation for graduate admission. It should include undergraduate courses in both experimental psychology and statistics, along with at least three courses from the following psychology areas: developmental, learning, perception, personality, physiological, and social.

For more information, please see the program page below and our website: <http://chp.phhp.ufl.edu>.

CLP 5316: Health Psychology

CLP 5426: Introduction to Neuropsychology

CLP 6304: Psychological Foundations of Clinical Psychology I

CLP 6307: Human Higher Cortical Functioning

CLP 6308: Psychological Foundations of Clinical Psychology II

CLP 6309: Psychological Foundations of Clinical Psychology III

CLP 6344C: Lifespan Foundations of Behavioral Health and Illness I

CLP 6345: Lifespan Foundations of Behavioral Health and Illness II

CLP 6375: Introduction to Clinical Psychology

CLP 6407: Psychological Treatment I

CLP 6417: Psychological Treatment II

CLP 6425: Seminar in Clinical Neuropsychology

CLP 6430: Clinical Psychological Assessment

CLP 6434C: Clinical Psychology Assessment I

CLP 6435C: Clinical Psychology Assessment II

CLP 6446C: Psychological Assessment of Children

CLP 6447C: Psychological Assessment of Adults

CLP 6476: Lifespan Psychopathology

CLP 6497: Psychopathological Disturbances

CLP 6527C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology I

CLP 6528C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology II

CLP 6529: Applied Multivariate Methods in Psychology

CLP 6905: Individual Work

CLP 6910: Supervised Research

CLP 6940: Supervised Teaching

CLP 6943: Core Practicum in Clinical Psychology

CLP 6945: Advanced Practicum in Neuropsychology

CLP 6946: Advanced Practicum in Applied Medical Psychology

CLP 6947: Practicum in Intervention

CLP 6948: Advanced Practicum in Clinical Child Psychology

CLP 6971: Research for Master's Thesis

CLP 7317: Advanced Health Psychology and Behavior Medicine

CLP 7404C: Special Issues, Methods, and Techniques in Psychological Treatment

CLP 7427C: Neuropsychological Assessment of Children

CLP 7428C: Neuropsychological Assessment of Adults

CLP 7934: Special Topics In Clinical Psychology

CLP 7949: Internship

CLP 7979: Advanced Research

CLP 7980: Research for Doctoral Dissertation

DEP 6216: Psychological Disturbances of Children

GEY 6306: Interpersonal Communication Within the Aging Network

GEY 7408: Psychotherapy with Older Adults

Environmental and Global Health Department

Chair: G. C. Gray
 Graduate Studies Program Assistant: N. Burke

Faculty listing [Follow this link](#)

The Department of Environmental and Global Health focuses upon environmental factors that impact human health. Department faculty, scientists, and students employ numerous disciplines in studying these environmental factors: virology, bacteriology, parasitology, entomology, toxicology, epidemiology, water sciences, veterinary health, environmental engineering, aerosol biology, wildlife health, etc. Research work often involves international travel and collaboration. A central theme for the department is the interdisciplinary thinking called [One Health](#) which reflects the collaborations necessary to tackle public health's most difficult problems. Faculty, students and staff often perform research in the laboratories in the [Emerging Pathogens Institute](#), the [Center for Environmental and Human Toxicology](#), or the [Aquatic Pathobiology Laboratory](#).

The Department of Environmental and Global Health offers graduate work leading to the degrees of Doctor of Philosophy, Master of Health Science, and Master of Public Health.

PHC 6006: An Introduction to One Health Problem Solving

PHC 6722: Environmental and Global Health Research Methods Rotation

PHC 6900: Environmental and Global Health Journal Club

PHC 6947: Occupational Health Field Research Experience

Epidemiology Department

[College of Public Health and Health Professions](#)
[College of Medicine](#)

Chair: Linda Cottler
 Ph.D. Program Director: Cindy Prins
 M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link](#).

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

PHC 6010: Data Management and Statistical Computing for Epidemiology

PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II

PHC 6052: Introduction to Biostatistical Methods

PHC 6070: Epidemiology of Aging

PHC 6405: Theoretical Foundations of Public Health

PHC 6517: Public Health Concepts in Infectious Diseases

PHC 6711: Measurement in Epidemiology and Outcomes Research

PHC 6716: Survey Research Methods

PHC 6912: Special Project: Independent Research

PHC 6938: Oral and Craniofacial Epidemiology

PHC 7065: Critical Skills in Epidemiological Data Management

PHC 7427: Ethics in Population Science

PHC 7727: Grant Writing for Population Health Research

PHC 7910: International Field Epidemiology

PHC 7916: National Field Epidemiology

STA 5325: Fundamentals of Probability

Health Services Research, Management, and Policy Department

Chair: Arch G. Mainous, III

Graduate Coordinator: Patricia Van Wert

Complete faculty listing: [Follow this link.](#)

The Department of Health Services Research, Management, and Policy offers degree programs at both the master's and doctoral level. The Master of Health Administration (M.H.A.) prepares individuals for management positions in the health care field. The Department also participates in the Master of Public Health (M.P.H.) degree by offering a concentration in Public Health Management and Policy (more information available [here](#)).

At the doctoral level, the Department offers the Ph.D. degree in Health Services Research. This full-time program prepares graduates to investigate and evaluate the complexities of health care systems in the U.S. and elsewhere. Health services research is a multidisciplinary field that examines the delivery, organization, financing, and outcomes of health care services.

Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below and our website: <http://hsmp.php.ufl.edu>.

HSA 5103: Introduction to the U.S. Health Care System

HSA 5174: Fundamentals of Health Care Finance

HSA 6105: Professional Skills Seminar

HSA 6114: U.S. Health Care System

HSA 6115: Introduction to Management of Health Services Organizations

HSA 6126: U.S. Health Insurance System

HSA 6152: Overview of U.S. Health Policy

HSA 6175: Health Care Financial Management

HSA 6177: Advanced Health Care Finance

HSA 6179: Introduction to Health Care Finance

HSA 6188: Strategic Management in Health Administration

HSA 6196: Health Services Operations Management

HSA 6197: Information Management in Health Administration

HSA 6198: Information Management in Health Administration

HSA 6342: Human Resource Management for Health Services Managers

HSA 6385: Performance Management for Health Care Managers

HSA 6427: Legal and Ethical Issues in Health Administration

HSA 6855: Internship in Health Administration

HSA 6858: Internship in Health Services Research

HSA 6878: Externship in Legal Aspects of Health Services Administration

HSA 6905: Individual Study in Health Administration

HSA 6910: Supervised Research

HSA 6911: Research Seminar in Health Services Research

HSA 6930: Special Topics in Health Services Administration

HSA 6935: Seminar in Health Administration

HSA 6939: Capstone Seminar in Health Administration

HSA 6940: Supervised Teaching

HSA 6946: Internship in Public Health Management and Policy

HSA 7106: Seminar in Health Care Access and Utilization

HSA 7116: Health Services Organizational Research

HSA 7157: Research Foundations of Health Policy

HSA 7414: Society, Health, and Medical Care

HSA 7437: Advanced Health Economics

HSA 7707: Health Services Research Methods I

HSA 7708: Health Services Research Methods II

HSA 7759: Quality and Outcomes in Health Services Research

HSA 7905: Advanced Individual Study in Health Services Research

HSA 7936: Seminar in Health Care Costs and Financing

HSA 7938: Advanced Seminar in Health Services Research

HSA 7979: Advanced Research

HSA 7980: Research for Doctoral Dissertation

Occupational Therapy Department

Chair: W. C. Mann.

Graduate Coordinator: C. A. Velozo, J.J. Foss.

Complete faculty listing by department: [Follow this link.](#)

The Department of Occupational Therapy offers graduate programs in occupational therapy leading to the Master of Health Science (M.H.S.) degree (on-campus nonthesis and thesis options and distance learning nonthesis option) and the entry-level Master of Occupational Therapy (M.O.T.) degree. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

Master of Health Science: This program is designed for students who have earned an undergraduate degree in Occupational therapy. The thesis option requires four semesters of course work and a formal research thesis, while the nonthesis option requires three semesters of course work and a research project. The program emphasizes research and advanced theories related to occupational therapy practice. Preparation for teaching, administrative, and other occupational therapy roles is supplemented through elective courses. A coherent series of elective courses related to occupational therapy must be approved by the supervisory committee chairperson before the second semester of work.

In addition to the requirements of the Graduate School, admission requires the candidate to have completed a curriculum in occupational therapy accredited by the American Occupational Therapy Association or by the World Federation of Occupational Therapists.

The distance learning degree option for the Master of Health Science is specifically intended to meet the needs of the working professional. The nonthesis program is designed to improve the knowledge and skills of working occupational therapists for practice in a complex and challenging health care system. It provides preparation for new practice areas, leadership roles, and independent practice and is delivered through the Internet. In addition to the departmental requirements listed above, applicants to the distance learning program must have basic personal computer competency and access to a computer that meets minimal configuration requirements.

Additional information about the Master of Health Science is available at <http://www.hp.ufl.edu> or <http://gradschool.rgp.ufl.edu> or by telephone at (352)273-6817. For distance learning, see <http://otdlimp.php.ufl.edu/> or call toll free (866)878-3297.

Master of Occupational Therapy: This entry-level degree program is designed for students who do not have an undergraduate degree in occupational therapy. The program provides students with a holistic perspective, including an understanding of the philosophical and theoretical bases for practice in the current health care environment. The M.O.T. program provides a strong background in theory, assessment, and therapeutic interventions. Before their professional preparation in the M.O.T. program, students receive a liberal education in their pre-professional baccalaureate studies, including several courses specifically focused for students planning to enter the M.O.T. program. Students may enroll in courses in the Bachelor of Health Science degree program at the bachelor's level, or they may complete these courses on a postbaccalaureate level before starting the M.O.T. program. Students are only admitted into the M.O.T. program in summer term and graduate at the end of the fall term after 1.33 years of full-time study (5 semesters) and 58 credits.

Admission requirements include completion of an undergraduate degree and the prerequisite course work. Three letters of reference and a letter of application are required by the Department. Additional information is available at <http://www.php.ufl.edu/ot/> and <http://gradschool.rgp.ufl.edu> or by telephone (352)273-6817.

This program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association. The address for ACOTE is 4720 Montgomery Lane, Box 31220, Bethesda, MD, 20814-1220. The phone number is (301) 652-2632. Graduates of the program are eligible to sit for the national certification exam administered by the National Board for Certification in Occupational Therapy (NBCOT). The website address of NBCOT is www.nbcot.org.

OTH 5002: Foundations of Occupational Therapy

OTH 5115C: Therapeutic Skills II: Areas of Occupation

OTH 5324: Psychosocial Intervention

OTH 5435: Therapeutic Skills I

OTH 5722: Professional Development in Occupational Therapy

OTH 5726C: Service Delivery and OT Management

OTH 5770C: Research for Occupational Therapy

OTH 5812: Practicum I

OTH 5816: Practicum II

OTH 5848: Internship I

OTH 5849: Internship II

OTH 6008: Neuroscience of Human Occupation

OTH 6106: Assistive Technology and Occupational Performance

OTH 6539: Occupational Therapy Theory

OTH 6635: Principles of Occupational Therapy Screening and Evaluation I

OTH 6636: Principles of Occupational Therapy Screening and Evaluation II

OTH 6641: Occupational Therapy Interventions I

OTH 6642: Occupational Therapy Interventions II

OTH 6707: OT Manager

OTH 6708: Issues in Occupational Therapy Practice I

OTH 6709: Issues in Occupational Therapy Practice II

OTH 6720: Trends and Issues in Health Care

OTH 6763: Evidence Based Practice

OTH 6861: Specialty Internship

OTH 6905: Individual Work

OTH 6907: Professional Development Project

OTH 6933: Special Topics in Occupational Therapy

OTH 6971: Research for Master's Thesis

Speech, Language and Hearing Sciences Department

Chair: Scott K. Griffiths

Graduate Coordinators: Kenneth J. Logan and Alice Holmes

Complete faculty listing by department: [Follow this link.](#)

Graduate programs in the Department lead to Master of Arts and Doctor of Philosophy degrees in Communication Sciences and Disorders and to the Doctor of Audiology degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate specializations and programs in speech-language pathology and audiology are accredited by the Council on Academic Accreditation/American Speech-Language-Hearing Association.

The **Doctor of Audiology (Au.D.) Program** in the Department of Speech, Language, and Hearing Sciences is a four-year graduate degree. Graduate students take course work in theoretical

and applied audiologic sciences and research. There are no specific undergraduate courses required for admission to the Au.D. degree program, although applicants with a strong science background are encouraged to apply. Graduates of this program are eligible for the Certificate of Clinical Competence in Audiology (CCC-A) administered by the American Speech-Language-Hearing Association, Board Certification in Audiology administered by the American Academy of Audiology, and for state licensure in audiology. For more information, contact Alice Holmes, Ph.D. (aholmes@ufl.edu).

The **Ph.D. Program in Communication Sciences and Disorders** provides a state-of-the-art education in research practices in speech-language pathology and audiology with a strong interdisciplinary focus. Our goal is to prepare the next generation of researchers who are specialized in basic and/or applied science that relates to a range of speech, language, hearing, and swallowing functions. The program is designed to develop researchers who are skilled at independently designing and conducting original research that adds to the body of knowledge in the field. Students are individually mentored and pursue individually designed programs of study tailored to their interests and needs, which incorporate training in appropriate adjunct fields such as engineering, dentistry, gerontology, linguistics, psychology, medicine and special education. For more information, contact Lori Altmann, Ph.D. (laltmann@ufl.edu).

The **Master of Arts (M.A.) Program** offers comprehensive academic training and clinical experience for students who are interested in a career in speech-language pathology. The five-semester program culminates in the completion of either a clinical externship or a Master's thesis, and it provides graduates with a solid foundation for obtaining employment in a variety of work settings. Students have the opportunity to complete clinical practica at sites within the University of Florida's Health Science Center and at other medical, rehabilitative, and educational facilities on or near the campus. These sites allow students to gain experience with providing clinical services to a range of patient populations.

Applicants to the Master's program must demonstrate successful completion of pre-requisite coursework in both normal bases of communication and introductory concepts in communication disorders. Additional information about these pre-requisites is available on the Department website. Graduates of the program are eligible for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association as well as state licensure in speech-language pathology. For more information, contact Kenneth J. Logan, Ph.D. (klogan@ufl.edu).

The Department of Speech, Language, and Hearing Sciences is committed to providing its students with a high-quality educational experience that will prepare them for rewarding employment in the areas of speech-language pathology and audiology, as well as an eagerness for life-long learning and professional development. The department strives to enroll a diverse group of students who possess both high ethical standards and strong academic skills. The application deadlines are January 15 for fall admission to the Ph.D. program, and February 1 for fall admission to the Master's and Au.D. programs.

For more information, please see the program pages below and our website: <http://slhs.php.ufl.edu>.

ASL 5406: Manual Communication with the Hearing Impaired

LAE 6505: Applied Preschool Language Disorders: Diagnosis and Treatment

SPA 5051: Clinical Observation in Audiology

SPA 5102: Auditory Anatomy and Physiology

SPA 5128: Speech Perception

SPA 5204: Phonological Disorders

SPA 5211: Voice Disorders

SPA 5225: Principles of Speech Pathology: Stuttering

SPA 5245: Communicative Disorders Related to Cleft Palate

SPA 5254: Neurocognitive Language Disorders

SPA 5304: Principles of Audiological Evaluation

SPA 5315: Peripheral and Central Auditory Disorders

SPA 5401: Speech Pathology Language Disorder

SPA 5405: Language Disorders II

SPA 5553: Instrumentation and Diagnosis in Speech-Language Pathology

SPA 5563: Psychosocial Aspects of Hearing Loss

SPA 5646: Speech and Language of the Deaf and Hard of Hearing

SPA 6008: Medical Aspects of Speech-Language Pathology

SPA 6010: Basic Auditory Sciences

SPA 6117: Science of Singing

SPA 6133L: Hearing Aid Analysis Laboratory

SPA 6207: Applied Phonological Disorders: Diagnosis and Treatment

SPA 6211: Applied Voice Disorders: Diagnosis and Treatment

SPA 6217: Vocal Health and Habilitation

SPA 6229: Applied Fluency Disorders: Diagnosis and Treatment

SPA 6233: Speech Motor Control Disorders

SPA 6270: Auditory Processing Disorders

SPA 6305: Pediatric Audiology

SPA 6311: Medical Audiology

SPA 6312: Advanced Audiology and Neuro-Otology

SPA 6317: Vestibular Disorders

SPA 6323: Audiologic Rehabilitation for Adults

SPA 6324: Audiologic Rehabilitation for Children

SPA 6340: Amplification I

SPA 6341: Amplification II

SPA 6342: Amplification III

SPA 6390: Proseminar: Speech-Language Pathology and Audiology

SPA 6410: Adult Language Disorders

SPA 6416: Applied Neurogenic Disorders: Diagnosis and Treatment

SPA 6430: Applied Developmental Disorders: Diagnosis and Treatment in Speech and Language

SPA 6436: Issues in Autism Spectrum Disorders

SPA 6506: Clinical Clerkship in Audiology

SPA 6507: Applied Augmentative and Alternative Communication

SPA 6521: Practicum in Speech-Language Diagnostics: UFSHC

SPA 6524: Practicum in Speech-Language Therapy: UFSHC

SPA 6531: Clinical Practice in Hearing Assessment

SPA 6533: Clinical Practice in Aural Rehabilitation

SPA 6559: Alternative and Augmentative Communication

SPA 6564: Communication and Aging

SPA 6565: Seminar in Dysphagia

SPA 6568: Clinical Evaluation in Medical Speech-Language Pathology

SPA 6570: Seminar: Professional Aspects of Speech-Language Pathology

SPA 6581: Special Clinical

SPA 6805: Introduction to Graduate Research

SPA 6830: Communication Disorders in Medically Complex Pediatric Populations

SPA 6905: Individual Study

SPA 6910: Supervised Research

SPA 6930: Proseminar in Speech-Language Pathology and Audiology

SPA 6935: Applied Reading Disabilities: Diagnosis and Treatment

SPA 6936: Special Topics

SPA 6940: Supervised Teaching

SPA 6942: Externship in Speech-Language Pathology

SPA 6971: Research for Master's Thesis

SPA 7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions

SPA 7306: Audiologic Assessment in a Medical Setting

SPA 7318: Clinical Auditory Electrophysiology

SPA 7319: Balance Disorders: Evaluation and Treatment

SPA 7325: Audiologic Rehabilitation

SPA 7343: Cochlear Implants and Assistive Devices

SPA 7348: Principles of Amplification

SPA 7353: Environmental Hearing Conservation

SPA 7354: Seminar in Audiology: Hearing Conservation and Noise Control

SPA 7391: Business and Professional Issues in Audiology

SPA 7415: Neurolinguistics of Adult Language Disorders

SPA 7500: Public School Practicum

SPA 7523: Practicum in Speech Pathology in a Medical/Dental Setting

SPA 7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders

SPA 7566: Counseling Individuals with Hearing Losses

SPA 7833: Audiology Research Project

SPA 7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities

SPA 7945: Graduate Practicum in Audiology

SPA 7946: Clinical I: Practicum in Medical Speech and Language Pathology

SPA 7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology

SPA 7958: Clinical Externship

SPA 7979: Advanced Research

SPA 7980: Research for Doctoral Dissertation

Programs

University of Florida

Other

University Writing Program

The University Writing Program at the University of Florida cultivates effective communication for engaged citizens, supporting their work in academic, business, and international spheres.

The UWP prepares students and faculty to meet their academic and professional writing goals by delivering broad-based instruction in composition, by providing a writing studio for individualized help, and by hosting faculty and student workshops. The UWP houses coursework in First-Year Writing, Second-Year Analytical Thinking and Writing, Third-Year Professional Writing in the Disciplines, and Graduate-Level Scholarship and Publication.

Engaging with students and faculty at all levels of writing and at every stage in the writing process, the UWP develops fundamental concepts of critical reasoning and effective communication.

[ENC 5319: Scholarly Writing for Publication](#) is a "service course" to other Graduate-level programs: graduate students learn how to transform research in their field of study into publishable articles, drafting, editing, and revising their work with the guidance of instructor feedback and peer review. With sufficient data, students can produce an article ready for submission to a scholarly journal in their field of study over the course of the semester.

For more information, please see our website: <http://writing.ufl.edu>.

University Writing Program Courses

- ENC 5319: Scholarly Writing for Publication

College of Agricultural and Life Sciences

Dean: Elaine Turner

Complete faculty listings: [Follow this link](#).

The College of Agricultural and Life Sciences offers academic programs and grants advanced degrees in 17 departments and the Schools of Forest Resources and Conservation, and Natural Resources and Environment. These academic units are all a part of the Institute of Food and Agricultural Sciences (IFAS). Additional components of IFAS include 16 research centers located throughout the state and cooperative extension offices in each of the 67 counties of the state.

The following courses are offered under the supervision of the office of the dean by an interdisciplinary faculty and deal with material of concern to two or more IFAS academic units. The courses are also open to students of other colleges, with the permission of the course instructor.

For more information, please see our website: <http://cals.ufl.edu>

[Departments and Programs within the College of Agricultural and Life Sciences](#)

[College of Agricultural and Life Sciences Courses](#)

Other

Genetics and Genomics

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Medicine](#)

Genetics and Genomics Program

Chair: C. Mulligan

Graduate Coordinator: J. Bungert

Complete faculty listing: [Follow this link](#)

or visit media.news.health.ufl.edu/mise/mgm/UFGI/search/members-list4.php

The University of Florida Genetics Institute is a multi-college, multi-faceted research center. Good geneticists are integrative geneticists, who incorporate many different subfields of genetics into their work. The core mission is to improve the quality of life of people throughout the world via integrative, genetics-based research. Accordingly, faculty interests and graduate research opportunities include a wide range of areas from advances in gene therapy to understanding the maintenance of genetic variation, from understanding plant immune responses to developing improved algorithms for identifying regulatory motifs in DNA sequences, and from the challenges of bioethics to strategies for controlling malaria.

The highlight of the first year core training is the research rotations program. Student laboratory rotations are a particularly exciting feature of the genetics and genomics doctoral program, and epitomize the philosophy that good geneticists are broadly trained and integrative. Many current Graduate Faculty members still vividly recall the transforming effects of their rotations during graduate school—they didn't always end up where they expected! Rotations can open students' eyes to areas of genetics that they had never considered and entice them into considering brand new career opportunities. Each student will sample the breadth and depth of genetics research at UF by carrying out three 8-week modules consisting of design, implementation, and analysis of genetics experiments. Each rotation is conducted in close association with a Graduate Faculty member. To ensure that students fully experience the impressive breadth of genetics research

at UF, their rotations are hosted by Graduate Faculty in at least two different colleges. Students will also take [PCB 5065](#), Advanced Genetics; [GMS 6181](#), Special Topics in Microbiology (among the topics are genomics and bioinformatics, and ethics for genetics research); [STA 6166](#), Statistical Methods I; and other electives as desired. In addition, throughout their tenure in the program, students participate in the Genetics Seminar, which is an opportunity to present their rotation plans and results of research to faculty and other students.

Prospective students should have strong backgrounds in biology and other hard sciences. Exceptional students with other backgrounds will also be considered. The research statement required as part of the application has a particularly important part in the admissions decision. Each applicant must describe his/her research interests, so that Graduate Faculty can evaluate knowledge of the discipline, fit to the program, and ability to articulate and motivate an interesting research problem. The required letters of recommendation are also extremely important in helping identify applicants with exceptional aptitude for genetics, and with research experience and promise.

For more information, write to the Genetics and Genomics Graduate Program, Attn: Graduate Secretary, Genetics Institute, University of Florida, PO Box 100196, Gainesville, FL 32610-0196.

Expanded information can be found at <http://www.ufgi.ufl.edu>.

Degrees Offered with a Major in Genetics and Genomics

Doctor of Philosophy

Doctor of Philosophy - Clinical and Translational Science

Courses

- AGR 6322: Advanced Plant Breeding
- ANG 6532: Molecular Genetics of Disease
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 7410: Advanced Gene Regulation
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5805: Computer Simulation Concepts
- CIS 6930: Special Topics in CIS
- COT 5405: Analysis of Algorithms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6920: Genetics Journal Colloquy
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- HOS 6201: Breeding Perennial Cultivars
- PCB 5065: Advanced Genetics
- PCB 5235L: Experiments in Immunology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6178: Genetic Data Analysis
- STA 6208: Basic Design and Analysis of Experiments
- STA 6329: Matrix Algebra and Statistical Computing
- STA 6934: Special Topics in Statistics
- STA 7979: Advanced Research
- STA 7980: Research for Doctoral Dissertation
- ZOO 6927: Special Topics in Zoology
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine

- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abc.ufl.edu>.

Other

Agricultural and Biological Engineering (CALS)

College

- [College of Agricultural and Life Sciences](#)
- [College of Engineering](#)

Department/School

[Agricultural and Biological Engineering Department](#)

Agricultural and Biological Engineering Program

The degrees of Master of Science, Master of Engineering, and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Additional information can also be found on the graduate studies pages on the department website at www.abc.ufl.edu.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Degrees Offered with a Major in Agricultural and Biological Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Agricultural and Biological Engineering Courses

- ABE 5015: Empirical Models of Crop Growth and Yield Response
- ABE 5038: Recent Developments and Applications in Biosensors
- ABE 5152: Electro-Hydraulic Circuits and Controls
- ABE 5332: Advanced Agricultural Structures
- ABE 5442: Advanced Agricultural Process Engineering
- ABE 5643C: Biological Systems Modeling
- ABE 5646: Biological and Agricultural Systems Simulation
- ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials
- ABE 5663: Advanced Applied Microbial Biotechnology
- ABE 5707C: Agricultural Waste Management
- ABE 5815C: Food and Bioprocess Engineering Design

- ABE 6005: Applied Control for Automation and Robots
- ABE 6031: Instrumentation in Agricultural Engineering Research
- ABE 6035: Advanced Remote Sensing: Science and Sensors
- ABE 6037C: Remote Sensing in Hydrology
- ABE 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6265: Vadose Zone Modeling
- ABE 6266: Nanotechnology in Water Research
- ABE 6615: Advanced Heat and Mass Transfer in Biological Systems
- ABE 6644: Agricultural Decision Systems
- ABE 6816: Food and Bioprocess Sterilization
- ABE 6905: Individual Work in Agricultural and Biological Engineering
- ABE 6910: Supervised Research
- ABE 6931: Seminar
- ABE 6933: Special Topics in Agricultural and Biological Engineering
- ABE 6940: Supervised Teaching
- ABE 6971: Research for Master's Thesis
- ABE 6972: Research for Engineer's Thesis
- ABE 6974: Nonthesis Project
- ABE 6986: Applied Mathematics in Agricultural and Biological Engineering
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- AOM5334C: Agricultural Chemical Application Technology
- AOM5431: GIS and Remote Sensing in Agriculture and Natural Resources
- AOM5435: Advanced Precision Agriculture
- AOM6905: Individual Work in Agricultural Operations Management
- AOM6932: Special Topics in Agricultural Operations Management
- CWR 6536: Stochastic Subsurface Hydrology
- PKG 5003: Advanced Distribution and Transport Packaging
- PKG 5006: Advanced Packaging Principles
- PKG 5105: Advanced Consumer Products Packaging
- PKG 5206C: Advanced Package Decoration
- PKG 5256C: Advanced Analytical Packaging Methods
- PKG 6100: Advanced Computer Tools for Packaging
- PKG 6905: Individual Work in Packaging
- PKG 6932: Special Topics in Packaging Sciences

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agricultural Education and Communication Department

Chair: E. W. Osborne

Graduate Coordinator: B. E. Myers

Complete faculty listing by department: [Follow this link.](#)

The Department of Agricultural Education and Communication offers the degrees of Master of Science and Doctor of Philosophy. Graduate students who obtain a degree in Agricultural Education and Communication will focus their study in one of four areas of specialization. The areas of specialization are agricultural communication, agricultural education, extension education, and leadership development. These degree programs are individually tailored to meet the student's unique needs for professional development. The requirements for each degree are described in the [Graduate Degrees](#) section of the University of Florida Graduate Catalog. More information about our program can be found by following the link below.

Other

Agricultural Education and Communication

College

[College of Agricultural and Life Sciences](#)

Department/School

[Agricultural Education and Communication Department](#)

Agricultural Education and Communication Program

The Master of Science program is designed to prepare graduates for domestic and international teaching, research, extension, administrative and leadership positions in both the public and private sectors. Courses are taught in an agricultural and natural resources context and are broadly applicable in educational, business, government, and agency settings. The Master of Science program is delivered on-campus and online via the AEC e-Learning Institute (eLI). The Doctor of Philosophy degree program is primarily designed to prepare graduates for academic positions in teaching, research, and extension within the realm of Agricultural Education and Communication. In addition, graduates may obtain positions in administration, human resource management, or training and development.

The **Agricultural Communication** specialization prepares students for professional communication careers in or dealing with agriculture and agribusiness. It is intended primarily for students who enter with a bachelor's degree in journalism, agricultural communication/journalism, advertising, broadcasting, public relations, or related fields. Graduates of this option are employed in: (1) communication or management positions with the numerous commodity or special-interest associations in agriculture and related fields; (2) communication support positions in agricultural extension and research information departments of land-grant universities, agencies of USDA, state Departments of Agriculture, and agricultural development projects overseas; (3) advertising and public relations positions with agribusiness firms or commodity associations; and (4) media positions involved in reporting on agriculture, agribusiness, and natural resource issues. Students in Agricultural Communication also develop strong skills/application in media writing, production, campaign strategies and/or Web design/desktop publishing. Graduates become prepared for positions in both public and private sectors in both industry and educational settings.

The **Agricultural Education** specialization is designed to enhance the careers of those employed in the educational professions in agriculture and natural resources. Regardless if one is employed in public school teaching, community college instruction, or training and development in agribusiness, students gain valuable knowledge and experience in designing, implementing, and evaluating educational programs. In addition, graduates of the program command added depth in the understanding of the teaching and learning process. This specialization may be designed to allow students to complete the requirements of teacher certification while completing their master's degree program. The PhD is a research-oriented degree that has a primary focus of preparing candidates to assume faculty positions in colleges or university teacher education programs. Candidates develop an individual program of study that provides a comprehensive knowledge of teaching and learning processes. The degree also seeks to extend the candidate's development by providing instruction, research opportunities, and experiences that enhance the depth and breadth of the candidate's prior learning opportunities.

The **Extension Education** specialization is designed to prepare students for careers in the Cooperative Extension service, outreach education, and/or other international agencies. Through coursework and research, students will gain valuable knowledge and experience in designing, implementing, and evaluating educational programs. Extension graduate students choose between a domestic or international focus in regards to coursework and/or research. In addition, graduates of the program command tremendous depth of the teaching and learning process. Candidates who select the **Extension Education** specialization develop an individual program of study that focuses on such topics as program development, experiential education, the change process, educational technologies and extension, program evaluation and organizational accountability, administration and leadership, and international extension. Graduates become prepared for a variety of positions including extension specialists, county and district extension directors, outreach education coordinators for private and public agencies, 4-H Extension agents and specialists, and educator specialists with international agencies.

The **Leadership Development** specialization is designed to prepare students for educational leadership, training, and outreach positions in agricultural, extension, community and governmental agencies. Course work in the major will focus on a core of agricultural courses along with emphasis in designing educational/training programs, professional presentation enhancement, leadership development, teaching/training methods, and interpersonal communication. Candidates who select the **Leadership Development** specialization develop an individual program that focuses on leadership theory and measurement, critical and creative thinking and leadership in cross-cultural settings. Students will encompass a strong research and theory-based program with a strong knowledge of training and development, and human resource management. Graduates become prepared for positions in both public and private sectors in both industry and educational settings.

Degrees Offered with a Major in Agricultural Education and Communication

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

Master of Science

without a concentration

concentration in Tropical Conservation and Development

Agricultural Education and Communication Courses

- AEC 5032: Agricultural Media Writing
- AEC 5037: Agricultural Media Production
- AEC 5060: Public Opinion and Agricultural and Natural Resource Issues
- AEC 5074: Agriculture, Resources, People, and the Environment: A Global Perspective
- AEC 5201: Teaching in Colleges of Agricultural and Life Sciences
- AEC 5203: Advanced Teaching in Colleges of Agricultural and Life Sciences
- AEC 5206: Teaching Methods in Agricultural Education
- AEC 5227: Teaching in Agricultural Education Laboratory Facilities
- AEC 5302: Professional Skill Development in Agriscience Education I
- AEC 5324: Philosophy and Development of Agricultural Education
- AEC 5454: Leadership Development for Extension and Community Nonprofit Organizations
- AEC 5501: Professional Skill Development in Agriscience Education II
- AEC 5541: Communication and Instructional Technologies in Agricultural and Life Sciences
- AEC 5544: Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies
- AEC 5545: Special Methods in Teaching Agriculture
- AEC 5546: Program Planning in Agricultural Education
- AEC 6205: Advanced Curriculum and Teaching Methods
- AEC 6210: Designing Educational Programs in Agricultural Settings
- AEC 6211: Delivering Educational Programs in Agricultural Settings
- AEC 6212: Teacher Education in Agriculture
- AEC 6229: Laboratory Instruction: Theory and Practice
- AEC 6300: Methodology of Planned Change
- AEC 6316: From America to Zimbabwe: An Overview of International Extension Systems
- AEC 6321: The Land Grant University and University Governance
- AEC 6325: History and Philosophy of Agricultural Education
- AEC 6419: Communication and Competencies for Global Leadership
- AEC 6426: Development of a Volunteer Leadership Program
- AEC 6512: Program Development in Extension Education
- AEC 6540: Agricultural and Natural Resources Communications Theory and Strategies
- AEC 6543: Teaching and Learning Theory: Applications in Agricultural Education
- AEC 6552: Evaluating Programs in Extension Education
- AEC 6611: Agricultural and Extension Adult Education
- AEC 6704: Extension Administration and Supervision
- AEC 6767: Research Strategies in Agricultural Education and Communication
- AEC 6905: Problems in Agricultural and Extension Education
- AEC 6910: Supervised Research
- AEC 6912: Nonthesis Research in Agricultural and Extension Education
- AEC 6933: Seminar in Agricultural Education and Communication
- AEC 6940: Supervised Teaching
- AEC 6945: Practicum in Agricultural Education and Communication
- AEC 6947: Experiential Learning in Agricultural Education
- AEC 6971: Research for Master's Thesis
- AEC 7979: Advanced Research
- AEC 7980: Research for Doctoral Dissertation
- AGG 5504: Critical and Creative Thinking in Problem Solving and Decision Making

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agronomy Department

Chair: R. A. Gilbert

Graduate Coordinator: L. E. Sollenberger

Complete faculty listing by department: [Follow this link.](#)

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis options) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agricultural and natural ecosystems in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

Other

Agronomy

College

[College of Agricultural and Life Sciences](#)

Department/School

[Agronomy Department](#)

Agronomy Program Information

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis option) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agronomic plants in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

Degrees Offered with a Major in Agronomy

Doctor of Philosophy

without a concentration

concentration in Toxicology

concentration in Tropical Conservation and Development

Master of Science

without a concentration

concentration in Agroecology

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

Agronomy Departmental Courses

- AGR 5215C: Integrated Field Crop Science
- AGR 5230C: Florida Grassland Agroecosystems
- AGR 5266C: Field Plot Techniques
- AGR 5277C: Tropical Crop Production
- AGR 5307: Molecular Genetics for Crop Improvement
- AGR 5321C: Genetic Improvement of Plants
- AGR 5444: Ecophysiology of Crop Production
- AGR 5511: Crop Ecology
- AGR 6233: Tropical Grassland Agroecosystems
- AGR 6237C: Research Techniques in Forage Evaluation
- AGR 6311: Population Genetics
- AGR 6322: Advanced Plant Breeding
- AGR 6325L: Plant Breeding Techniques
- AGR 6353: Cytogenetics
- AGR 6422C: Environmental Crop Nutrition
- AGR 6442C: Physiology of Agronomic Plants
- AGR 6905: Agronomic Problems
- AGR 6910: Supervised Research
- AGR 6932: Topics in Agronomy
- AGR 6933: Graduate Agronomy Seminar
- AGR 6940: Supervised Teaching
- AGR 6971: Research for Master's Thesis
- AGR 7979: Advanced Research
- AGR 7980: Research for Doctoral Dissertation
- ALS 5155: Global Agroecosystems
- IPM5305: Principles of Pesticides
- PLS 5632C: Integrated Weed Management
- PLS 5652: Advanced Weed Science
- PLS 6623: Weed Ecology
- PLS 6626: Invasive Plant Ecology
- PLS 6655: Plant/Herbicide Interaction

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science

- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Animal Sciences Department

Chair: G. E. Dahl

Graduate Coordinator: G. Adesogan

Complete faculty listing by department: [Follow this link.](#)

Animal Sciences is an academic department of the [College of Agriculture and Life Sciences \(CALS\)](#), a unit of the [Institute of Food and Agricultural Sciences \(IFAS\)](#). Creating new solutions to tomorrow's problems underlies everything we do in the Animal Sciences Program. In the areas of teaching, research, and extension, our faculty integrates the most modern technologies available with personal expertise and attention to the needs of students and our industry. For more information about the Animal Sciences program, please follow the link below.

Other

Animal Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Animal Sciences Department](#)

Animal Sciences Program

The Department of Animal Sciences offers the degrees of Master of Science and Doctor of Philosophy in animal sciences with emphasis in beef or dairy cattle, swine, or equine. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The following specializations are available:

- Breeding and genetics
- Management
- Nutrition (nutritional physiology, nutrient metabolism, and feedstuff utilization)
- Physiology (environmental, lactational, and reproductive)
- Molecular biology (embryology, endocrinology, and genetics)
- Meat science (meat processing, meat quality, muscle biology, and food safety)

A student may work on a problem covering more than one area of study. Animal resources (beef cattle, dairy cattle, horses, swine, sheep, and laboratory animals) are available for use in various research programs. Nutrition, physiology, and meats laboratories are available for detailed chemical and carcass quality evaluations, and excellent computer facilities are available. Special arrangements may be made to conduct research at the various branch agricultural experiment stations throughout Florida.

Departmental and program prerequisites for admission to graduate study include a sound science background, with basic courses in microbiology, biology, mathematics, and chemistry. All courses in the animal sciences program area are acceptable for graduate credit as part of the candidate's major.

The Graduate School restricts graduate students from pursuing minors in academic units that contribute major credit toward their degree program. Therefore, graduate students majoring in Animal Sciences cannot pursue a minor in Food and Resource Economics, Food Science and Human Nutrition, Medicine-Biochemistry, and Veterinary Medical Sciences. In addition, undergraduate credits at the 3000-4000 level in the major of any of these listed academic units are not eligible to count toward degree requirements.

Degrees Offered with a Major in Animal Sciences

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

Master of Science

without a concentration

Animal Sciences Departmental Courses

- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6314: Experimental Embryology
- ANS 6447: Ruminant Nutrition
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- ANS 6705: Muscle Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
- ANS 6767: Molecular Endocrinology
- ANS 6775: Essentials of Livestock Immunology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- PCB 6816: Thermal Physiology

Additional Courses for Major Credit in Animal Sciences

- AEB 5326: Agribusiness Financial Management
- AEB 6385: Management Strategies for Agribusiness Firms
- AEB 7182: Agricultural Risk Analysis and Decision Making
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5732: Current Issues in Food Regulations
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- VME 5162C: Avian Diseases
- VME 5244: Physiology: Organ Systems

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Entomology and Nematology Department

[College of Agricultural and Life Sciences](#)

Chair: John L. Capinera.

Graduate Coordinator: Heather J. McAuslane.

Complete faculty listing by department: [Follow this link.](#)

The Entomology and Nematology Department offers the Master of Science (thesis and nonthesis options) and Doctor of Philosophy degrees in entomology and nematology with the following specializations: entomology, nematology, and pest management. Minimum requirements for the M.S. and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

The Department also offers a cooperative Doctor of Philosophy degree with Florida A&M University and distance education courses leading to the M.S. degree. Members of the Graduate Faculty include the department resident faculty, faculty located on University of Florida campuses away from Gainesville, scientists with other State of Florida agencies such as the Division of Plant Industry and Florida Department of Agriculture and Consumer Services, and scientists of the U.S. Department of Agriculture. The Graduate Faculty is qualified to direct graduate students in all specialties of entomology, nematology, and acarology.

New graduate students should have backgrounds in biology, chemistry, physics, and mathematics. Minor deficiencies may be made up after entering graduate school.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please see the program page below, and visit our website: <http://entnemdept.ufl.edu>.

Other

Entomology and Nematology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Entomology and Nematology Department](#)

Entomology and Nematology Program Information

The Entomology and Nematology department offers research-based M.S. (thesis) and PhD degrees in entomology and in nematology. Our large faculty in Gainesville and at Research and Education Centers around the state allow for study in many important areas, including behavior, ecology, systematics, biological control, nematology, pest management, and medical, veterinary and urban entomology. Molecular, whole organism and population ecology studies are all within the range of supported research in the Entomology and Nematology department, and our nematology program is one of the most comprehensive in the nation.

The M.S. degree can be taken in a non-thesis format, in Gainesville or entirely online, with a specialization in either entomology or pest management. Online M.S. degrees are designed to accommodate place-bound students interested in biological science with emphasis on insects and other arthropods, including extension faculty and other educators; state and federal employees in agricultural, environmental and regulatory positions; consultants; pest control industry personnel; and others who want to further their education.

Certificates, comprising 15 credit hours of specific coursework, are available online or to residential students with concentrations in urban pest management, landscape pest management or medical entomology. These certificates document specialization and proficiency in sub-disciplines within entomology for enrolled graduate students and provide evidence of expertise for non-degree seeking students.

Students entering graduate programs in entomology and nematology should have a strong science background, including biology, chemistry, and algebra. Physics and statistics are recommended. Admissions criteria can be found on the Graduate School's [Admission](#) page.

Degrees Offered with a Major in Entomology and Nematology

Doctor of Philosophy

Master of Science

Entomology and Nematology Departmental Courses

- ALS 5156: Agricultural Ecology Principles and Applications
- ALS 6046: Grant Writing
- ALS 6166: Exotic Species and Biosecurity Issues
- ALS 6935: Topics in Biological Invasions
- ENY 5006: Graduate Survey of Entomology
- ENY 5006L: Graduate Survey of Entomology Laboratory
- ENY 5031C: Insect Field Biology
- ENY 5151C: Techniques in Insect Systematics
- ENY 5160C: Survey of Science with Insects
- ENY 5164: Graduate Survey of Invertebrate Field Biology
- ENY 5212: Insects and Wildlife
- ENY 5223C: Biology and Identification of Urban Pests
- ENY 5226C: Principles of Urban Pest Management
- ENY 5332: Graduate Survey of Urban Vertebrate Pest Management
- ENY 5236: Insect Pest and Vector Management
- ENY 5241: Biological Control
- ENY 5245: Agricultural Acarology
- ENY 5405: Insects as Vectors of Plant Pathogens
- ENY 5516: Turf and Ornamental Entomology
- ENY 5566: Tropical Entomology
- ENY 5567: Tropical Entomology Field Laboratory
- ENY 5572: Advanced Apiculture
- ENY 5611: Immature Insects
- ENY 5820: Insect Molecular Genetics
- ENY 6166: Insect Classification
- ENY 6203: Insect Ecology
- ENY 6203L: Insect Ecology Laboratory
- ENY 6248: Termite Biology and Control
- ENY 6401: Insect Physiology
- ENY 6401L: Insect Physiology Laboratory
- ENY 6454: Behavioral Ecology and Systematics of Insects
- ENY 6591C: Advanced Mosquito Identification
- ENY 6593: Advanced Mosquito Biology
- ENY 6651C: Insect Toxicology
- ENY 6665: Advanced Medical and Veterinary Entomology I
- ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory
- ENY 6706: Forensic Entomology
- ENY 6706L: Forensic Entomology Laboratory
- ENY 6821: Insect Microbiology
- ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens
- ENY 6905: Problems in Entomology
- ENY 6910: Supervised Research
- ENY 6931: Entomology Seminar
- ENY 6932: Special Topics in Entomology
- ENY 6934: Selected Studies in Entomology
- ENY 6940: Supervised Teaching
- ENY 6942: Insect Diagnostics
- ENY 6943: Entomology Internship
- ENY 6944: Entomology Extension Internship
- ENY 6971: Research for Master's Thesis
- ENY 7979: Advanced Research
- ENY 7980: Research for Doctoral Dissertation
- NEM 5004C: Graduate Survey of Nematology
- NEM 5707C: Plant Nematology
- NEM 6101C: Nematode Morphology and Anatomy
- NEM 6102: Nematode Systematics and Molecular Phylogeny
- NEM 6102L: Nematode Systematics and Molecular Phylogeny Laboratory
- NEM 6103: Insect Parasitic Nematodes
- NEM 6104L: Insect Parasitic Nematodes Laboratory
- NEM 6201: Nematode Ecology
- NEM 6708: Field Plant Nematology
- NEM 6905: Problems in Nematology
- NEM 6931: Nematology Seminar
- NEM 6932: Special Topics in Nematology
- NEM 6934: Selected Studies in Nematology
- NEM 6940: Supervised Teaching
- NEM 6942: Nematode Diagnostics
- NEM 6943: Nematode Internship
- NEM 6944: Nematode Extension Internship
- NEM 6971: Research for Master's Thesis
- NEM 7979: Advanced Research
- NEM 7980: Research for Doctoral Dissertation
- PMA 5205: Citrus Pest Management
- PMA 6228: Field Techniques in Integrated Pest Management

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics

- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Medicine

College

[College of Agricultural and Life Sciences](#)

Department/School

[Entomology and Nematology Department](#)

Plant Medicine Program Information

Coordinator: Amanda C. Hodges

The Doctor of Plant Medicine (DPM) program is an intensive doctorate-level graduate level training program for students interested in plant health diagnosis and management. Requirements for the degree can be found in the [Graduate Degrees](#) section of this catalog.

DPM students complete rigorous coursework and intensive internships. Only DPM students jointly enrolled in one of our discipline department M.S. or Ph.D. programs complete a thesis or dissertation. DPM students often participate in applied research within laboratory programs, and may participate in the publication of peer-reviewed scientific and extension papers. More information regarding the latest policies for the DPM program is available in the [DPM graduate handbook](#).

The DPM program is a partnership among faculty mentors and teaching faculty within the following primary departments:

- Entomology and Nematology Department
- Department of Plant Pathology
- Agronomy Department
- Horticulture Sciences Department
- Environmental Horticulture Department
- Soil and Water Sciences Department
- Food Science and Human Nutrition Department

For more information, please see the DPM website: <http://dpm.ifas.ufl.edu>.

Degrees Offered with a Major in Plant Medicine

Doctor of Plant Medicine

without a concentration

concentration in Tropical Conservation and Development

Agronomy Departmental Courses

- AGR 5215C: Integrated Field Crop Science
- AGR 5230C: Florida Grassland Agroecosystems
- AGR 5266C: Field Plot Techniques
- AGR 5277C: Tropical Crop Production
- AGR 5307: Molecular Genetics for Crop Improvement

- AGR 5321C: Genetic Improvement of Plants
- AGR 5444: Ecophysiology of Crop Production
- AGR 5511: Crop Ecology
- AGR 6233: Tropical Grassland Agroecosystems
- AGR 6237C: Research Techniques in Forage Evaluation
- AGR 6311: Population Genetics
- AGR 6322: Advanced Plant Breeding
- AGR 6325L: Plant Breeding Techniques
- AGR 6353: Cytogenetics
- AGR 6422C: Environmental Crop Nutrition
- AGR 6442C: Physiology of Agronomic Plants
- AGR 6905: Agronomic Problems
- AGR 6910: Supervised Research
- AGR 6932: Topics in Agronomy
- AGR 6933: Graduate Agronomy Seminar
- AGR 6940: Supervised Teaching
- AGR 6971: Research for Master's Thesis
- AGR 7979: Advanced Research
- AGR 7980: Research for Doctoral Dissertation
- ALS 5155: Global Agroecosystems
- IPM5305: Principles of Pesticides
- PLS 5632C: Integrated Weed Management
- PLS 5652: Advanced Weed Science
- PLS 6623: Weed Ecology
- PLS 6626: Invasive Plant Ecology
- PLS 6655: Plant/Herbicide Interaction

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Entomology and Nematology Departmental Courses

- ALS 5156: Agricultural Ecology Principles and Applications
- ALS 6046: Grant Writing
- ALS 6166: Exotic Species and Biosecurity Issues
- ALS 6935: Topics in Biological Invasions
- ENY 5006: Graduate Survey of Entomology
- ENY 5006L: Graduate Survey of Entomology Laboratory
- ENY 5031C: Insect Field Biology
- ENY 5151C: Techniques in Insect Systematics
- ENY 5160C: Survey of Science with Insects
- ENY 5164: Graduate Survey of Invertebrate Field Biology
- ENY 5212: Insects and Wildlife
- ENY 5223C: Biology and Identification of Urban Pests
- ENY 5226C: Principles of Urban Pest Management
- ENY 5332: Graduate Survey of Urban Vertebrate Pest Management
- ENY 5236: Insect Pest and Vector Management
- ENY 5241: Biological Control
- ENY 5245: Agricultural Acarology
- ENY 5405: Insects as Vectors of Plant Pathogens
- ENY 5516: Turf and Ornamental Entomology

- ENY 5566: Tropical Entomology
- ENY 5567: Tropical Entomology Field Laboratory
- ENY 5572: Advanced Apiculture
- ENY 5611: Immature Insects
- ENY 5820: Insect Molecular Genetics
- ENY 6166: Insect Classification
- ENY 6203: Insect Ecology
- ENY 6203L: Insect Ecology Laboratory
- ENY 6248: Termite Biology and Control
- ENY 6401: Insect Physiology
- ENY 6401L: Insect Physiology Laboratory
- ENY 6454: Behavioral Ecology and Systematics of Insects
- ENY 6591C: Advanced Mosquito Identification
- ENY 6593: Advanced Mosquito Biology
- ENY 6651C: Insect Toxicology
- ENY 6665: Advanced Medical and Veterinary Entomology I
- ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory
- ENY 6706: Forensic Entomology
- ENY 6706L: Forensic Entomology Laboratory
- ENY 6821: Insect Microbiology
- ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens
- ENY 6905: Problems in Entomology
- ENY 6910: Supervised Research
- ENY 6931: Entomology Seminar
- ENY 6932: Special Topics in Entomology
- ENY 6934: Selected Studies in Entomology
- ENY 6940: Supervised Teaching
- ENY 6942: Insect Diagnostics
- ENY 6943: Entomology Internship
- ENY 6944: Entomology Extension Internship
- ENY 6971: Research for Master's Thesis
- ENY 7979: Advanced Research
- ENY 7980: Research for Doctoral Dissertation
- NEM 5004C: Graduate Survey of Nematology
- NEM 5707C: Plant Nematology
- NEM 6101C: Nematode Morphology and Anatomy
- NEM 6102: Nematode Systematics and Molecular Phylogeny
- NEM 6102L: Nematode Systematics and Molecular Phylogeny Laboratory
- NEM 6103: Insect Parasitic Nematodes
- NEM 6104L: Insect Parasitic Nematodes Laboratory
- NEM 6201: Nematode Ecology
- NEM 6708: Field Plant Nematology
- NEM 6905: Problems in Nematology
- NEM 6931: Nematology Seminar
- NEM 6932: Special Topics in Nematology
- NEM 6934: Selected Studies in Nematology
- NEM 6940: Supervised Teaching
- NEM 6942: Nematode Diagnostics
- NEM 6943: Nematode Internship
- NEM 6944: Nematode Extension Internship
- NEM 6971: Research for Master's Thesis
- NEM 7979: Advanced Research
- NEM 7980: Research for Doctoral Dissertation
- PMA 5205: Citrus Pest Management
- PMA 6228: Field Techniques in Integrated Pest Management

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish

- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

Horticultural Sciences Departmental Courses

- ALS 5934: Graduate Professional Development Seminar
- HOS 5085C: Principles of Postharvest Horticulture
- HOS 5115C: Horticultural Plant Morphology and Identification
- HOS 5242: Genetics & Breeding of Vegetable Crops
- HOS 5306: Molecular Biology of Plant Hormones
- HOS 5330: Postharvest Technologies for Horticultural Crops
- HOS 5432: Advanced Nutritional Management of Ornamental Crops
- HOS 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding
- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6545: Advanced Citriculture I
- HOS 6546: Advanced Citriculture II

- HOS 6905: Problems in Horticultural Science
- HOS 6910: Supervised Research
- HOS 6931: Horticultural Science Seminar
- HOS 6932: Special Topics
- HOS 6940: Supervised Teaching
- HOS 6941: Practicum in Horticultural Science
- HOS 6971: Research for Master's Thesis
- HOS 7979: Advanced Research
- HOS 7980: Research for Doctoral Dissertation
- ORH 5026C: Advanced Annual and Perennial Gardening
- ORH 5086: Advanced Golf and Sports Turf Management
- ORH 5282: Orchid Biology and Culture
- ORH 5322C: Palm Biology and Culture
- ORH 5817C: Advanced Florida Native Landscaping
- ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

Plant Pathology Departmental Courses

- PLP 5005C: General Plant Pathology
- PLP 5102: Theory and Practice of Plant Disease Control
- PLP 5115C: Citrus Pathology
- PLP 5155: Microbiological Control of Plant Diseases and Weeds
- PLP 6656C: Fungal Biology
- PLP 6223C: Viral Pathogens of Plants
- PLP 6241C: Bacterial Plant Pathogens
- PLP 6262C: Fungal Plant Pathogens
- PLP 6291: Plant Disease Diagnosis
- PLP 6303: Host-Parasite Interactions II
- PLP 6404: Epidemiology of Plant Disease
- PLP 6502: Host-Parasite Interactions I
- PLP 6621C: Pop Genetics Microbes
- PLP 6905: Problems in Plant Pathology
- PLP 6910: Supervised Research
- PLP 6921: Colloquium in Principles of Plant Pathology
- PLP 6932: Seminar in Plant Pathology
- PLP 6940: Supervised Teaching
- PLP 6942: Professional Internship in Plant Disease Clinic
- PLP 6971: Research for Master's Thesis
- PLP 7946: Plant Pathology Internship
- PLP 7979: Advanced Research
- PLP 7980: Research for Doctoral Dissertation

Soil and Water Science Departmental Courses

- ALS 5027: Reusable Learning Objects
- ALS 5155: Global Agroecosystems
- CWR 6537: Contaminant Subsurface Hydrology
- SWS 5050: Soils for Environmental Professionals
- SWS 5050L: Soils for Environmental Professionals Laboratory
- SWS 5115: Environmental Nutrient Management
- SWS 5132: Tropical Soil Management
- SWS 5182: Earth System Analysis
- SWS 5208: Sustainable Agricultural and Urban Land Management
- SWS 5234: Environmental Soil, Water, and Land Use
- SWS 5235: South Florida Ecosystems
- SWS 5224: Environmental Biogeochemistry
- SWS 5246: Water Resource Sustainability
- SWS 5247: Hydric Soils
- SWS 5248: Wetlands and Water Quality
- SWS 5305C: Soil Microbial Ecology
- SWS 5308: Ecology of Waterborne Pathogens
- SWS 5406: Soil and Water Chemistry
- SWS 5424C: Soil Chemical Analysis
- SWS 5551: Soils, Water, and Public Health
- SWS 5605C: Environmental Soil Physics
- SWS 5716C: Environmental Pedology
- SWS 5721C: GIS in Land Resource Management
- SWS 5805: Environmental Soil and Water Monitoring Techniques
- SWS 6134: Soil Quality
- SWS 6136: Soil Fertility
- SWS 6161: Bioavailability of Soil Nutrients
- SWS 6262: Soil Contamination and Remediation
- SWS 6323: Advanced Microbial Ecology

- SWS 6325: Rhizosphere Biochemistry
- SWS 6366: Biodegradation and Bioremediation
- SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6722: Soil-Landscape Modeling
- SWS 6905: Special Problems
- SWS 6910: Supervised Research
- SWS 6931: Seminar
- SWS 6932: Topics in Soils
- SWS 6940: Supervised Teaching
- SWS 6971: Research for Master's Thesis
- SWS 7979: Advanced Research
- SWS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Family, Youth, and Community Sciences Department

Interim Chair: Tracy Irani

Graduate Coordinator: Larry F. Forthun

Complete faculty listing by department: [Follow this link](#)

The FYCS graduate program is an interdisciplinary applied social science program that prepares students for advanced degrees (e.g., Ph.D.) and careers in such areas as family and youth services, Extension and community-based education, community development and nonprofit management, program planning and evaluation, and social policy. Graduates find careers in both the public and private sectors including:

- Child and Youth Development in areas such as juvenile justice, dropout prevention programs, recreational and camp programs, and youth ministry;
- Community Development Practice in local and regional government, private nonprofit organizations (such as chambers of commerce, local development corporations, and local, national and international foundations) and citizen's groups;
- Nonprofit Organizational Management, such as management of community based, nonprofit organizations;
- Family and Social Services, such as family preservation programs, assistance for abused and neglected children and other public assistance programs; and
- Cooperative Extension Service in such areas as youth development, family and consumer sciences and community development.

Contact the graduate coordinator for more information.

Other

Family, Youth, and Community Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Family, Youth, and Community Sciences Department](#)

Master of Science in Family, Youth and Community Sciences

The Master of Science in FYCS offers two degree options—a thesis and a non-thesis. Both options prepare students for advanced professional positions. FYCS students in either option may complete the FYCS Concentration in Nonprofit Organizational Development, the Certificate in Nonprofit Organizational Development, or the Certificate in Personal & Family Financial Planning

Thesis Option prepares students to conduct independent research needed to develop science-based solutions to problems, issues and policies that affect families, youth and communities. Students develop expertise in a subject matter area directly relevant to the problem or need they want to address with the thesis research.

Non-Thesis Project Option provides the student with a broad base of knowledge and skills in the discipline. Students complete a non-thesis project determined in consultation with the supervisory committee. Projects vary in nature and may include directed research, program evaluation, or other empirically-based projects.

The Minor in Family, Youth and Community Sciences provides students with knowledge about the theories and body of research that explain how families, youth and communities develop and interact. The minor consists of nine hours of study.

The Minor in Organizational Leadership for Nonprofits provides students with an understanding of how to develop not-for-profit organizations to address problems facing families, youth and communities. The minor consists of six hours of study (nine hours for doctoral students).

Concentration in Nonprofit Organizational Development The nonprofit organizational development concentration will prepare students to work with tax exempt nonprofit organizations and informal community based groups that serve a charitable purpose for the public good. The concentration includes the study of the historical development of nonprofits in the US that enable students to understand the unique aspects of nonprofits and their growing importance and impact on our society. It provides students with a knowledge base for aspiring nonprofit organizational leaders and proven competencies for practicing professionals in the nonprofit sector.

The Graduate Certificate in Nonprofit Leadership will prepare students to work with all 501 (c) nonprofit organizations, tax exempt and others. Courses provide an in depth understanding for developing and sustaining an efficient and effective nonprofit organization. Core competencies in governance, strategic planning, fund raising, and risk management are included as well as other tools.

The Graduate Certificate in Personal and Family Financial Planning The certificate addresses the Certified Financial Planner™ (CFP) Board of Standards education requirement for sitting for the CFP examination, including insurance, personal investing, retirement planning, tax planning, behavioral finance, financial planning practice management and foundational family economic theories. The CFP designation is the leading standard in financial planning and our program is registered with the CFP Board of Standards enabling students to sit for the exam upon completion of the certificate.

Degrees Offered with a Major in Family, Youth, and Community Sciences

Master of Science

without a concentration

concentration in Community Studies

concentration in Family and Youth Development

concentration in Nonprofit Organization Development

Courses

- FYC 5008: Personal and Family Tax Planning
- FYC 5009: Personal and Family Insurance Planning
- FYC 5106: Personal and Family Retirement and Estate Planning
- FYC 5935: Personal and Family Financial Planning Capstone
- FYC 6020: Principles of Family, Youth, and Community Sciences
- FYC 6111: Families and Violence
- FYC 6117: Military Families in Community Context
- FYC 6131: Ethics for FYCS Practitioners
- FYC 6207: Adolescent Problematic Behavior
- FYC 6221: Grant Proposals for Community-Based Organizations
- FYC 6222: Parenting and Child Relationships
- FYC 6223: Promoting Positive Youth Development
- FYC 6224: Resilience and Positive Youth Development
- FYC 6230: Theories of Youth and Family Development
 - FYC 6232

- FYC 6234: Theoretical Approaches to Youth Programming
- FYC 6302: Sustainable Community Development
- FYC 6320: Community Development and Civic Engagement
- FYC 6330: Theories of Community Development
- FYC 6331: Involving Youths in Community Issues
- FYC 6412: Historical Foundations of Philanthropy
- FYC 6421: Nonprofit Organizations
- FYC 6422: Policy Issues and Case Studies in Nonprofit Organizations
- FYC 6423: Non-Governmental Organizations
- FYC 6424: Fund Raising for Community Nonprofit Organizations
- FYC 6425: Risk Management in Nonprofit Organizations
- FYC 6620: Program Planning and Evaluation for Human Service Delivery
- FYC 6662: Public Policy and Human Resource Development
- FYC 6800: Scientific Reasoning and Research Design
- FYC 6802: Advanced Research Methods for Family, Youth, and Community Sciences
- FYC 6901: Problems in Family, Youth, and Community Sciences
- FYC 6912: Nonthesis Project in Family, Youth, and Community Sciences
- FYC 6932: Topics, in Family, Youth, and Community Sciences
- FYC 6933: Seminar in Human Resource Development
- FYC 6934: Professional Internship/Practicum in Family, Youth, and Community Sciences
- FYC 6971: Research for Master's Thesis

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food and Resource Economics Department

[College of Agricultural and Life Sciences](#)

Interim Chair: Rodney L. Clouser

Acting Graduate Coordinator: Sherry Larkin

Complete faculty listing by department: [Follow this link](#)

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

The Department participates in programs with the Center for Latin American Studies, the Center for African Studies, the Center for Tropical Agriculture, the School of Natural Resources and Environment, the College of Law, and the Florida Sea Grant College Program.

The Department programs reflects the diversity of Florida's agriculture which has more than fifty major commodities. With over thirty faculty involved in a full range of research, extension, and teaching programs in areas including Agricultural Marketing, International Trade, Policy, Production/Farm Management, International Development, Marine Economics, Natural Resource and Environmental Economics, Community/Regional Development and Labor Economics. In addition to the main campus location, the department has faculty at research centers throughout the state.

Several members of the faculty have garnered international reputations in diverse fields such as trade policy, generic advertising, citrus economics, sugar policy, business retention and expansion, leadership development, consumer attitudes towards genetically modified food, and dairy marketing.

The Department offers a combined bachelor's/master's degree program for the Master of Science and Master of Science with Concentration in Agribusiness. Contact the Graduate Program Office in 1170 McCarty Hall for information.

For more information, please see the program pages below, and see our website: <http://www.fred.ifas.ufl.edu>.

Other

Food and Resource Economics

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food and Resource Economics Department](#)

Food and Resource Economics Program Information

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB.) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

The **Ph.D. in Food and Resource Economics** is designed to provide the student with rigorous training in economics, statistics, and applied quantitative techniques. Each student is exposed to core theory and to fields of specialization with the purpose to prepare the candidate for a professional career in post-secondary education, government, non-governmental organizations, private business, and international agencies.

The **Master of Agribusiness** is designed specifically for students with no academic background in economics or agricultural economics. The program is made up of students from diverse backgrounds including Accounting, Agricultural Education and Communication, Agricultural Operations Management, Animal Science, Business Administration, Finance, Food Science, Horticulture, Management, Turfgrass, and Wildlife Ecology and Conservation. The graduate coursework complements the student's undergraduate background and prepare them for careers in financial analysis, sales, management, marketing, human resources, policy, production, and entrepreneurial pursuits working in private industry, international firms, non-profit organizations and government.

The **Master of Science** in the Food and Resource Economics Department provides broad training in applied economics as it relates to food production, marketing and trade, regional economics, and natural resource issues. Students are taught to use basic economic principles and quantitative methods to address empirical problems. The core consists of graduate level courses in microeconomics, policy, econometrics, statistics and survey research methods. Many students elect to continue their education with a Ph.D. degree while others opt for employment with government agencies, non-governmental organizations, foreign agencies, private consulting firms, or corporations.

The **Master of Science with Concentration in Agribusiness** is designed specifically for students with an educational background in economics and agricultural economics. The quantitative courses include microeconomics, policy, econometrics and survey research methods and provide solid economic theory to prepare students for careers in financial analysis, sales, management, marketing, human resources, policy, production, and entrepreneurial pursuits working in private industry, international firms, non-profit organizations and government.

For more information, please see our website: <http://www.fred.ifas.ufl.edu>.

Degrees Offered with a Major in Food and Resource Economics

Doctor of Philosophy

without a concentration

with a concentration in Hydrologic Sciences

with a concentration in Toxicology

with a concentration in Tropical Conservation and Development

Master of Agribusiness

without a concentration

with a concentration in Tropical Conservation and Development

Master of Science

without a concentration

with a concentration in Agribusiness

with a concentration in Hydrologic Sciences

with a concentration in Toxicology

with a concentration in Tropical Conservation and Development

Courses

- AEB 5167: Economic Analysis in Small Farm Livelihood Systems
- AEB 5188: Economics of Agribusiness Decisions
- AEB 5326: Agribusiness Financial Management
- AEB 5516: Quantitative Methods in Agribusiness Decisions
- AEB 5757: Strategic Agribusiness Human Resource Management
- AEB 6106: Microeconomic Principles and Analysis
- AEB 6139: Strategic Agribusiness Management
- AEB 6145: Agricultural Finance
- AEB 6183: Agribusiness Risk Management
- AEB 6225: Public Policy and the Agribusiness Firm
- AEB 6301: Food Wholesale and Retail Marketing
- AEB 6363: Agricultural Marketing
- AEB 6385: Management Strategies for Agribusiness Firms
- AEB 6533: Static and Dynamic Optimization Models in Agriculture
- AEB 6553: Elements of Econometrics
- AEB 6592: Mathematical Programming for Economic Analysis
- AEB 6675: International Agribusiness Marketing
- AEB 6815: Science and Research Methodology
- AEB 6817: Survey Research Methods for Economists
- AEB 6905: Problems in Food and Resource Economics
- AEB 6910: Supervised Research
- AEB 6921: Workshop in Food and Resource Economics I
- AEB 6933: Special Topics
- AEB 6934: Workshop in Food and Resource Economics II
- AEB 6942: Advanced Applications in Agribusiness Experience
- AEB 6971: Research for Master's Thesis
- AEB 7108: Microeconomic Theory II
- AEB 7174: Economic Coordination and Organizational Behavior in Agribusiness
- AEB 7182: Agricultural Risk Analysis and Decision Making
- AEB 7184: Production Economics
- AEB 7240: Macroeconomic Theory in Open Economies II
- AEB 7373: Consumer Demand and Applied Analysis
- AEB 7453: Natural Resource and Environmental Economics
- AEB 7483: Seminar in Natural Resource and Environmental Economics
- AEB 7571: Econometric Methods I
- AEB 7572: Econometric Methods II
- AEB 7645: Economic Development and Agriculture
- AEB 7979: Advanced Research
- AEB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food Science and Human Nutrition Department

[College of Agricultural and Life Sciences](#)

Chair: Susan S. Percival

Graduate Coordinators: Harry S. Sitren (M.S. in Food Science and Human Nutrition / Ph.D. in Food Science), James F. Collins (Ph.D. in Nutritional Sciences)

Complete faculty listing by department: [Follow this link.](#)

The Food Science and Human Nutrition Department (FSHN) is one of the world's largest combined academic programs where food science, nutritional sciences, and dietetics are all studied within one department. FSHN has nearly 30 full-time faculty members, 80 graduate assistants, and close to 1,000 undergraduate students. Our programs are accredited by the [Institute of Food Technologists](#) (IFT) and the [Academy of Nutrition and Dietetics](#). After completing undergraduate degrees, our students typically move on to professional employment, further education or training in food or nutrition graduate programs, or on to professional school programs. We have a strong record of excellent placement of our graduate students in industry and professional organization employment positions, as faculty members at colleges and universities, or in postdoctoral training experiences.

Our faculty has trained at institutions from around the world; they have been widely successful in their teaching, research, and extension efforts. Throughout our programs in food science, nutrition, and dietetics, our faculty is recognized nationally and internationally as experts in their respective fields.

The Food Science and Human Nutrition Department offers programs leading to the degrees of Master of Science in Food Science and Human Nutrition, Doctor of Philosophy in Food Science, and Doctor of Philosophy in Nutritional Sciences (offered under the auspices of the [Center for Nutritional Sciences](#)). Minimum requirements for these degrees are located in the Graduate Degrees section of this catalog.

For more information please click the links to the program pages below, or see our website: <http://fshn.ifas.ufl.edu>.

Other

Food Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Food Science Program Information

The Ph.D. program in Food Science is a multidisciplinary program consisting of Food Chemistry, Food Processing and Engineering, and Food Microbiology and Safety. Students are expected to obtain a breadth of food science knowledge by taking courses in all program areas with the majority of courses stressing one of the three areas of emphasis.

For further information, please see our website at: <http://fshn.ifas.ufl.edu>.

Doctor of Philosophy

without a concentration

concentration in Toxicology

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food Science and Human Nutrition

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Food Science and Human Nutrition Program

The M.S. program offers tracks in food science and in nutritional sciences. The Institute of Food Technologists and the American Society for Nutrition recognize these concentrations. The department also offers a combined Master of Science-Dietetics Internship (MS-DI) program accredited by the Commission on Accreditation for Dietetic Education (CADE). Students who complete this program are eligible to take the national registration examination to become a registered dietitian. Only graduates from a CADE accredited/approved Didactic Program in Dietetics are eligible for the MS-DI program.

Specific areas of study include nutritional biochemistry/molecular biology, nutrient function/metabolism, medical nutrition therapy/dietetics, nutritional immunology, food processing/engineering, food chemistry/biochemistry, and food safety/microbiology/quality.

Applicants must have an adequate background in physical and biological sciences and food science or nutritional sciences. Students with specific deficiencies will be required to take prerequisite courses.

For further information, please see our website at: <http://fshn.ifas.ufl.edu>.

Degrees Offered with a Major in Food Science and Human Nutrition

Master of Science

without a concentration

concentration in Nutritional Sciences

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry

- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Nutritional Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Nutritional Sciences Program

The field of nutritional science has unprecedented public interest. This is fostered by evolving links between diet and health, and the impact of one's individual genetic makeup on nutrient utilization. The Ph.D. degree program in Nutritional Sciences is interdisciplinary, with participating CALS, COM, CLAS, and CVM faculty directing research of doctoral students, where the full spectrum of Nutritional Sciences is available. Emphasis areas include basic nutritional sciences, biochemistry and molecular biology, genetics, immunology, physiology, clinical nutrition, microbiology, and biostatistics.

Students are admitted to the program after the bachelor's degree or a master's degree in nutritional sciences or a related field. Applicants should have a strong undergraduate background in biological sciences and chemistry. Deficiencies may be made up during the first year of graduate study.

Additional information can be found at <http://nutritionalsciences.centers.ufl.edu>.

For additional information, e-mail Dr. Mitchell D. Knutson, Director at mknutson@ufl.edu or Dr. James F. Collins, Graduate Coordinator at jfcollins@ufl.edu.

Degrees Offered with a Major in Nutritional Sciences

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Nutritional Sciences Program Core Courses

[BCH 6206: Advanced Metabolism](#)
[HUN 6938: Nutritional Sciences Seminar](#)
[STA 6166: Statistical Methods in Research I](#)
[HUN 6301: Nutritional Aspects of Lipid Metabolism](#)
[HUN 6305: Nutritional Aspects of Carbohydrates](#)
[HUN 6321: Proteins and Amino Acids in Nutrition](#)
[HUN 6331: Vitamins in Human Nutrition](#)
[HUN 6356: Minerals in Nutrition](#)

Additional Course Offerings

The following courses may be taken to contribute to the overall degree award requirements.

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research

- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Horticultural Sciences Department

[College of Agricultural and Life Sciences](#)

Chairs : K.M. Folta (Interim Chair, Horticultural Sciences) and W. Mackay (Environmental Horticulture)

Graduate Coordinator: G. A. Moore (Horticultural Sciences) and L. Trenholm (Environmental Horticulture)

Complete faculty listing: [Follow this link.](#)

The Horticultural Sciences Department Graduate Program at the University of Florida has a wide array of opportunities for graduate study.

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

The Horticultural Sciences Department offers a combined bachelor's/master's degree program. Please contact the graduate coordinator for information.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest. Details about the program and how to apply are listed on their website: <http://hos.ufl.edu>.

Other

Horticultural Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Horticultural Sciences Department](#)

Environmental Horticulture Department

Horticultural Sciences Program Information

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest.

Requirements:

A strong undergraduate or graduate background in horticultural, biological, agronomic, or other disciplines in the life sciences and undergraduate coursework in chemistry, physics, and mathematics. A prospective graduate student need not have majored in horticulture as an undergraduate or master's student; however, students with curriculum deficiencies are required to take prerequisite subjects during the first year of graduate study. Undergraduate courses taken to correct curriculum deficiencies do not count for graduate program credit.

Specializations in the HS department focus on vegetable and fruit crops and include

- Plant Breeding and Genetics
- Crop Production and Nutrient Management
- Postharvest Biology
- Organic Sustainable Agriculture
- Weed Science
- Physiology and Biochemistry
- Plant Molecular Biology
- Protected Agriculture

Numerous HS and HSE faculty participate in the interdisciplinary Plant Molecular and Cellular Biology Program. Students interested in molecular biology/biotechnology may pursue molecular-oriented studies in any listed specialization. Students interested in full specialization in molecular and related disciplines should contact the Plant Molecular and Cellular Biology interdisciplinary program for specific requirements.

Specializations in the HSE department:

- Breeding and Genetics
- Restoration Ecology
- Floriculture
- Foliage Production
- Plant anatomy and development
- Plant Biotechnology
- Plant Restoration Conservation Biotechnology
- Stress Physiology
- Taxonomy
- Tissue Culture
- Turfgrass Science
- Woody Plants

Graduate School Degree Program Requirements Master of Science (thesis option):

Students must earn at least 30 credits as a graduate student at UF. No more than 9 of the 30 credits (earned with a grade of A, B+, or B) may be transferred from institutions approved for this purpose by the Dean of the Graduate School. A minimum of 12 credits is required in the Horticultural Sciences major; additionally, a maximum of 6 credits in HOS 6971- Master's Research - may be counted toward the total credits. [See here for information on M.S. graduate degrees.](#)

A minor may be chosen in an academic unit other than the major. If a minor is chosen, at least 6 credits of course work are required in the minor field. Two 6-credit minors may be taken with the major academic unit's permission. A 3.00 (truncated) GPA is required for minor credit. In addition, a representative from the department in which the minor is being received must be on the supervisory committee.

Master of Science non-thesis option:

This option offers additional training beyond the bachelor's degree in a horticultural specialization. Essential elements of this program include a program of courses and a comprehensive written and/or final oral qualifying examination. There is no thesis requirement. A minimum of 30 credit hours of course work is required. Courses taken for program credit must be numbered 5000 or higher with at least 15 of these credits in the Horticultural Science major. With supervisory committee and college dean approval, 6 hours of 3000- or 4000-level undergraduate courses, taught outside the major department, may count toward the minimum requirements for the degree. [Click for information on all graduate degrees.](#)

A minor may be chosen in an academic unit other than the major. If a minor is chosen, at least 6 credits of work are required in the minor field. Two 6-credit minors may be taken with the major academic unit's permission. A 3.00 (truncated) GPA is required for minor credit. In addition, a representative from the department in which the minor is being received must be on the supervisory committee.

Doctor of Philosophy:

The Doctor of Philosophy is a research degree and is granted on evidence of general proficiency, distinctive attainment in a special field, and ability to conduct independent investigation as demonstrated in a dissertation presenting original research with a high degree of literary skill. Consequently, doctoral programs are more flexible and varied than those leading to M.S. degree programs. The Ph.D. degree requires at least 90 credits beyond the bachelor's degree, although specific course requirements vary from field to field and from student to student. Up to 30 credits of master's degree may be transferred to a doctoral program. Any credits counted from an M.S. degree program must have been earned within the previous seven years (or by petition). The Graduate Council does not specify the courses required for the Ph.D. degree.

General requirements for the program include

- a clear objective for research
- approval of the student's entire supervisory committee
- an appropriate number of credits of doctoral research

[Click for information on all graduate degrees.](#)

Minor: With the supervisory committee's approval, the student may choose one or more minor fields. Minor work may be completed in any academic unit outside the major, if approved for M.S. or doctoral programs listed in this catalog. The collective grade for courses included in a minor must be "B" (3.00) or higher. If one minor is chosen, the supervisory committee member representing the minor suggests 12 to 24 credits of courses numbered 5000 or higher as preparation for a qualifying examination. Part of this credit may have been earned in the M.S. degree program. If two minors are chosen, each must include at least 8 credits. Competence in the minor area is demonstrated by written examination by the minor academic unit, or by the oral qualifying examination. Minor course work at the doctoral level may include courses in more than one academic unit; if the objective of the minor is clearly stated and the combination of courses is approved by the Graduate School (this approval is not required for a minor in one academic unit). Further requirements for the Master of Science and the Doctor of Philosophy degrees are listed under those headings in the General Information section of this catalog.

Degrees Offered with a Major in Horticultural Sciences

Doctor of Philosophy

without a concentration

concentration in Environmental Horticulture

concentration in Horticultural Sciences

concentration in Toxicology

Master of Science

without a concentration

concentration in Environmental Horticulture

concentration in Horticultural Sciences

Horticultural Sciences Program Courses

- ALS 6935: Topics in Biological Invasions
- BCH 5045: Graduate Survey of Biochemistry
- BOT 6935: Special Topics
- HOS 6934: Professional Seminar Preparation
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

Additional Course Offerings

The following courses may be taken to contribute to the overall degree award requirements.

Horticultural Sciences Departmental Courses

- ALS 5934: Graduate Professional Development Seminar

- HOS 5085C: Principles of Postharvest Horticulture
- HOS 5115C: Horticultural Plant Morphology and Identification
- HOS 5242: Genetics & Breeding of Vegetable Crops
- HOS 5306: Molecular Biology of Plant Hormones
- HOS 5330: Postharvest Technologies for Horticultural Crops
- HOS 5432: Advanced Nutritional Management of Ornamental Crops
- HOS 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding
- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6545: Advanced Citriculture I
- HOS 6546: Advanced Citriculture II
- HOS 6905: Problems in Horticultural Science
- HOS 6910: Supervised Research
- HOS 6931: Horticultural Science Seminar
- HOS 6932: Special Topics
- HOS 6940: Supervised Teaching
- HOS 6941: Practicum in Horticultural Science
- HOS 6971: Research for Master's Thesis
- HOS 7979: Advanced Research
- HOS 7980: Research for Doctoral Dissertation
- ORH 5026C: Advanced Annual and Perennial Gardening
- ORH 5086: Advanced Golf and Sports Turf Management
- ORH 5282: Orchid Biology and Culture
- ORH 5322C: Palm Biology and Culture
- ORH 5817C: Advanced Florida Native Landscaping
- ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research

- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Microbiology and Cell Science Department

Chair: E. Triplett.

Graduate Coordinator: Tony Romeo.

Complete faculty listing by department: [Follow this link.](#)

Graduate study is offered leading to the Master of Science and Doctor of Philosophy degrees in microbiology and cell science, with emphasis in one or more of the disciplines of biochemistry, cell biology, and microbiology.

Requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog and also at the Department webpage: <http://microcell.ufl.edu/>.

Instruction and guidance are collaborative among faculty in the Colleges of Agricultural and Life Sciences, Liberal Arts and Sciences, and Medicine.

Research spans broad areas in the cellular and molecular aspects of bacterial, plant, and animal life functions: Areas of research include microbial biochemistry, biotechnology; biomass conversion; genetic and metabolic regulation; environmental microbiology; cell biology; molecular biology; molecular genetics; genomics and bioinformatics; immunology; virology; parasitology, host-pathogen interactions; cellular ultrastructure.

Prerequisites for admission to graduate study, in addition to those of the Graduate School, are a broad educational background including mathematics, physics, and chemistry through organic, analytical, and physical chemistry; basic courses in biology, botany, and/or zoology; and at least one course in microbiology and biochemistry. An undergraduate major in biochemistry, physical or chemical science, engineering, or general biology may be an acceptable alternative to a degree in microbiology or cell science. Receipt of an advanced degree requires detailed knowledge in microbiology, biochemistry, and chemistry; undergraduate deficiencies may necessitate additional course work prior to entry into the graduate program.

In addition, the Microbiology and Cell Science Department also offers a combined B.S./M.S. program that allows qualified students to earn both the Bachelor's and Master's degrees with 12 credit hours of jointly counted course work. This program is considered a "4/1" because students may be awarded both degrees within a five-year period. For further information on this program, follow this link: <http://microcell.ufl.edu/graduate-program/combined-degree-program/>.

Other

Microbiology and Cell Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Microbiology and Cell Science Department](#)

Degrees Offered with a Major in Microbiology and Cell Science

Doctor of Philosophy

without a concentration

concentration in Medical Microbiology and Biochemistry

concentration in Toxicology

Master of Science

without a concentration

concentration in Medical Microbiology and Biochemistry

Courses

- MCB 5205: Microbiology of Human Pathogens
- MCB 5252: Microbiology, Immunology, and Immunotherapeutics
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 5408: Anaerobic Microbiology and Biotechnology
- MCB 5458: Energy Transformation in Microorganisms
- MCB 5505: General Virology
- MCB 6317: Molecular Biology of Gene Expression
- MCB 6318: Comparative Microbial Genomics
- MCB 6355: Microbial/Host Defense
 - MCB 6358
- MCB 6409: Microbial Cell Structure and Function
- MCB 6417: Microbial Metabolism and Energetics
- MCB 6457: Metabolic Regulation
- MCB 6465: Microbial Metabolic Engineering
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- MCB 6772: Advanced Topics in Cell Biology
- MCB 6905: Experimental Microbiology
- MCB 6910: Supervised Research
- MCB 6930: Seminar
- MCB 6937: Special Topics in Microbiology
- MCB 6940: Supervised Teaching
- MCB 6971: Research for Master's Thesis
 - MCB 6xxx
- MCB 7922: Journal Colloquy
- MCB 7979: Advanced Research
- MCB 7980: Research for Doctoral Dissertation
- PCB 5136L: Techniques in Microbial and Cell Biology
- PCB 5235: Immunology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)

[College of Medicine](#)

Complete faculty listing by department: [Follow this link](#).

Plant Molecular and Cellular Biology (PMCB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Other

Plant Molecular and Cellular Biology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Plant Molecular and Cellular Biology Department](#)

Plant Molecular and Cellular Biology Program Information

Director: Gloria A. Moore

Graduate Coordinator: Matias Kirst

Plant Molecular and Cellular Biology (PCMB) is an interdisciplinary and interdepartmental graduate degree program that emphasizes understanding the molecular and cellular mechanisms that mediate plant development, adaptation, and evolution. Students can pursue an M.S. or a Ph.D. degree through the PMCB program. All students complete core courses in Advanced Genetics, Plant Molecular Biology and Genomics, Plant Cellular and Developmental Biology, and Plant Biochemistry. In addition to the core classes, students can select from a variety of courses in biochemistry, molecular biology, physiology, breeding, genetics, evolution, microbiology, and plant pathology.

New students are exposed to a variety of faculty and experimental systems while they rotate through several laboratories during their first two semesters before selecting an adviser and dissertation research area. Both M.S. and Ph.D. students take four required courses: [PCB 5065](#) Advanced Genetics, [PCB 5530](#) Plant Molecular Biology and Genomics, [PCB 6528](#) Plant Cell and Developmental Biology and [BOT 6935](#) Plant Biochemistry, as well as journal colloquium classes ([PCB 7922](#) Journal Colloquium). Additional elective courses are taken after approval by the student's supervisory committee. For additional information see <http://pmcb.ifas.ufl.edu>.

Successful candidates should have a strong interest in plant molecular and cellular mechanisms controlling development, metabolism, adaptation, and evolution. Applicants typically have a B.S. or M.S. in the agricultural, forestry, biological or chemical sciences with advanced undergraduate coursework in genetics, molecular and cellular biology, and biochemistry. However, outstanding students from a broad range of science disciplines are actively considered.

Degrees Offered with a Major in Plant Molecular and Cellular Biology

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Molecular and Cellular Biology Courses

- BOT 6935: Special Topics
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6910: Supervised Research
- PCB 6937: Special Topics in Plant Molecular and Cellular Biology
- PCB 6971: Research for Master's Thesis
- PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Pathology Department

Chair: R. Loria

Graduate Coordinators: J. Jones

Complete faculty listing by department: [Follow this link.](#)

The Department of Plant Pathology offers graduate studies leading to the Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees. The Department also participates in the Doctor of Plant Medicine interdisciplinary professional degree.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Plant Pathology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Plant Pathology Department](#)

Plant Pathology Program Information

A student may pursue studies in one of several basic areas of plant pathology. These areas include fungal plant pathology, plant bacteriology, plant virology, diagnostics, control, and also molecular and biochemical aspects of host-pathogen systems, biological control of pathogens and weeds, epidemiology, etiology, genetics of host-pathogen systems, soil microbiology, and pathogen taxonomy. In Florida, the variety of cultivated plants, coupled with an environment ideal for plant disease development, offers the student opportunities to study diseases of many crops as they develop. First-hand knowledge can be gained of diseases of field, fruit, ornamental, pasture, range, turf, and vegetable crops in temperate, subtropical, and tropical environments. Students who anticipate study in plant pathology at the University of Florida should include in their undergraduate programs training in botany, chemistry (through biochemistry), genetics, and microbiology.

Courses in nematology are offered by the Department of Entomology and Nematology.

Degrees Offered with a Major in Plant Pathology

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Pathology Departmental Courses

- PLP 5005C: General Plant Pathology
- PLP 5102: Theory and Practice of Plant Disease Control
- PLP 5115C: Citrus Pathology
- PLP 5155: Microbiological Control of Plant Diseases and Weeds
- PLP 6656C: Fungal Biology
- PLP 6223C: Viral Pathogens of Plants
- PLP 6241C: Bacterial Plant Pathogens
- PLP 6262C: Fungal Plant Pathogens
- PLP 6291: Plant Disease Diagnosis
- PLP 6303: Host-Parasite Interactions II
- PLP 6404: Epidemiology of Plant Disease
- PLP 6502: Host-Parasite Interactions I
- PLP 6621C: Pop Genetics Microbes
- PLP 6905: Problems in Plant Pathology
- PLP 6910: Supervised Research
- PLP 6921: Colloquium in Principles of Plant Pathology
- PLP 6932: Seminar in Plant Pathology
- PLP 6940: Supervised Teaching
- PLP 6942: Professional Internship in Plant Disease Clinic
- PLP 6971: Research for Master's Thesis
- PLP 7946: Plant Pathology Internship
- PLP 7979: Advanced Research
- PLP 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

School of Forest Resources and Conservation

[College of Agricultural and Life Sciences](#)

Director: T. L. White.

Graduate Coordinator: T.V. Stein

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Joint program: Students may simultaneously earn a juris doctorate from the College of Law and a graduate degree (M.F.R.C., M.S., or Ph.D.) in Forest Resources and Conservation.

Combined programs: The School offers a combined bachelor's/master's degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings of 1 semester. Ph.D. students may pursue a co-major with the Department of Statistics (see below).

Concentration in geomatics: Students completing 15 or more credits with an SUR designation, as part of an SFRC graduate degree, may earn the concentration in geomatics. Geomatics is the collection, analysis, and management of spatial information and includes such fields as surveying, mapping, land tenure, cadastral systems, geographic information systems, and remote sensing.

Concentration in ecological restoration: This concentration is available to M.S. non-thesis students. To earn this concentration a student must complete Ecosystem Restoration Principles and Practice and four of the following courses: Ecological Distribution and Management of Invasive Plants, Ecology and Restoration of Invaded Ecosystems, Ecology and Restoration of Longleaf Pine Ecosystem, Watershed Restoration and Management, Natural Resource Policy and Administration, or Agroforestry in the Southeastern US. Ecological restoration seeks to

return ecosystems to a close approximation of condition before a disturbance.

Statistics co-major: Ph.D. students with the School may elect the co-major offered jointly with the Department of Statistics. Students focusing on forest genetics, tree improvement, and other statistics-intensive aspects of natural resource management are potential candidates for this option.

Certificates: The School administers the Graduate Certificate in Agroforestry, and SFRC students regularly earn certificates in Geographic Information Systems and in Environmental Education and Communication. Requirements are described under *Interdisciplinary Graduate Certificates and Concentrations* in this catalog

For additional information, please visit the School's web page at <http://sfrc.ufl.edu>.

For details on what terms courses will be offered, please visit <http://sfrc.ufl.edu/gradcourses.html>.

Other

Fisheries and Aquatic Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Forest Resources and Conservation](#)

Fisheries and Aquatic Sciences Program

Director: T. L. White

Graduate Coordinator: William J. Lindberg

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas.

The School's program in Fisheries and Aquatic Sciences leads to the Master of Science, Master of Fisheries and Aquatic Sciences (nonthesis), and Doctor of Philosophy degrees with a program in Fisheries and Aquatic Sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

The Fisheries and Aquatic Sciences program also offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

The School of Forest Resources and Conservation's program in Fisheries and Aquatic Sciences conducts research, teaching, and extension programs in four broad areas:

- Sustainable fisheries
- Aquaculture
- Aquatic animal health
- Conservation and management of aquatic environments

Faculty encompass both freshwater and marine environments, as well as managed aquaculture systems. Collaborators include the UF College of Veterinary Medicine, National Biological Survey, National Marine Fisheries Service, Harbor Branch Oceanographic Institute, Mote Marine Laboratory, the US Geologic Survey, the Florida Fish and Wildlife Conservation Commission, and others. Academic programs are structured to emphasize direct engagement of students with faculty. Further information, including specific degree options, faculty biographies, and information on the admissions process, is available at: <http://sfrc.ufl.edu>.

Degrees Offered with a Major in Fisheries and Aquatic Sciences

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

Master of Fisheries and Aquatic Sciences

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration

- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar

- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Forest Resources and Conservation

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Forest Resources and Conservation](#)

Forest Resources and Conservation Program Information

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The SFRC offers graduate programs leading to the Master of Forest Resources and Conservation (professional, non-thesis), Master of Science (thesis and non-thesis), and Doctor of Philosophy degrees in Forest Resources and Conservation. The Master of Science non-thesis degree may be taken entirely online. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Forest Resources and Conservation program prepares students to work with the ecological, economic, and social aspects of natural resources, including the management of spatial information gathered through traditional surveying as well as remote sensing. Faculty have a wide variety of specializations, including fire ecology, land tenure, tree genetics, recreation management, environmental education, geographic information systems, silviculture, forest economics, and environmental policy. Further information, including specific degree options, faculty biographies, and information on the admissions process, is available at: <http://sfrc.ufl.edu>.

Degrees Offered with a Major in Forest Resources and Conservation

Doctor of Philosophy

without a concentration

concentration in Agroforestry

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Hydrologic Sciences

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Toxicology

concentration in Wetland Sciences

Master of Forest Resources and Conservation

without a concentration

concentration in Agroforestry

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Agroforestry

concentration in Ecological Restoration

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Hydrologic Sciences

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
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- SUR 5391C: Geomatics: Spatial Foundations of GIS
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- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
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Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
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- FAS 5276C: Field Ecology of Aquatic Organisms
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- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
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- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
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- FOR 5435: Forest Information Systems
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- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
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- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

School of Natural Resources and Environment

Graduate coordinator: T. Frazier

Complete faculty listing by department: [Follow this link.](#)

The University of Florida School of Natural Resources and Environment offers interdisciplinary coursework in the basic and applied science of ecology, the related social sciences, and sustainability, leading to M.S. and Ph.D. degrees. Choose from about 450 courses, 280 faculty advisors, and 44 participating departments. Research areas of ecology graduate students range across natural resource ecology, environmental policy and management, and sustainable development.

Environmental problems are fundamentally human problems and should be understood in terms of human motivations and actions in a biophysical context. Their solution requires holistic thinking about dynamic ecological systems and the social, economic, and political forces driving human action. To this end, the goal of the Interdisciplinary Ecology graduate program is to provide advanced training in ecosystems thinking and the main theories and methodologies of the biophysical and social sciences to foster integrative approaches to complex real-world problems. Interdisciplinary Ecology students are intensely interested in the sustainability problem, and they welcome the challenge of addressing it through more than one traditional discipline.

Other

Interdisciplinary Ecology

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Natural Resources and Environment](#)

Interdisciplinary Ecology Program

Director of Academic Programs and Graduate Coordinator: T. Frazer

Graduate students are advised by one of the 280 members of the School's affiliate faculty and have a supervisory committee with interdisciplinary composition. For the list of Graduate Faculty, see <http://sfrc.ufl.edu/fish/people/>. Graduate students are hosted in one of 44 participating academic units.

The School offers a program of study leading to the Master of Science (thesis and non-thesis options), and Doctor of Philosophy degrees in interdisciplinary ecology. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. The course work requirements and curriculum are described in more detail at <http://www.snre.ufl.edu/>. Choices among 450 courses are custom-fitted by the student and the supervisory committee to meet the student's specific needs and interests.

The Interdisciplinary Ecology program views the social-ecological system as the proper framework for addressing the full scope of complex, adaptive systems comprising humans in the natural world. The degree program challenges students to understand both natural and human dynamics to obtain a holistic view and to foster integration of human activities with natural resources and the environment. The learning outcomes of the program are to develop a thorough understanding of the components, processes, and interactions of the social-ecological system, competence in scientific research methodologies, and experience in professional interaction with peers.

The degree programs combine 1) course work in the science of ecology and additional natural and social sciences; and 2) competence in a recognized discipline in one of these fields of study. The former is achieved with a core-course and distribution requirement and the latter by extra course work for the master's and a concentration for the doctoral degree. A thesis or dissertation provides first-hand experience creating scientific knowledge. The non-thesis master's option provides rapid, advanced preparation for the job market in 3 to 4 semesters, without research experience. Course requirements are 36 semester hours for the thesis option, 38 hours for the non-thesis option, and 60 hours beyond the master's degree for the doctoral degree.

Degrees Offered with a Major in Interdisciplinary Ecology

Doctor of Philosophy

without a concentration

concentration in Agricultural and Biological Engineering

concentration in Agricultural Education and Communication

concentration in Agronomy

concentration in Anthropology

concentration in Architecture

concentration in Biochemistry and Molecular Biology

concentration in Botany

concentration in Business Administration

concentration in Chemistry

concentration in Civil Engineering

concentration in Climate Science

concentration in Coastal and Oceanographic Engineering

concentration in Economics

concentration in English

concentration in Entomology and Nematology

concentration in Environmental Engineering Sciences

concentration in Family, Youth and Community Sciences

concentration in Farming Systems

concentration in Fisheries and Aquatic Sciences

concentration in Food and Resource Economics

concentration in Food Science

concentration in Forest Resources and Conservation

concentration in Foundations of Education

concentration in Geographic Information Systems

concentration in Geography

concentration in Geology

concentration in Health and Human Performance

concentration in Horticultural Sciences

concentration in Hydrologic Sciences

concentration in Landscape Architecture

concentration in Mathematics

concentration in Microbiology and Cell Science

concentration in Nuclear and Radiological Engineering

concentration in Philosophy

concentration in Political Science

concentration in Religion

concentration in Sociology

concentration in Soil and Water Science

concentration in Statistics

concentration in Tropical Conservation and Development

concentration in Urban and Regional Planning

concentration in Veterinary Medical Sciences

concentration in Wetland Sciences

concentration in Wildlife Ecology And Conservation

concentration in Women's/Gender Studies

concentration in Zoology

Master of Science

without a concentration

concentration in Agricultural and Biological Engineering

concentration in Agricultural Education and Communication

concentration in Agronomy

concentration in Anthropology

concentration in Architecture

concentration in Biochemistry and Molecular Biology

concentration in Botany

concentration in Business Administration

concentration in Chemistry

concentration in Civil Engineering

concentration in Climate Science

concentration in Coastal and Oceanographic Engineering

concentration in Economics

concentration in English

concentration in Entomology and Nematology

concentration in Environmental Engineering Sciences

concentration in Family, Youth and Community Sciences

concentration in Farming Systems

concentration in Fisheries and Aquatic Sciences

concentration in Food and Resource Economics

concentration in Food Science

concentration in Forest Resources and Conservation

concentration in Foundations of Education

concentration in Geographic Information Systems

concentration in Geography

concentration in Geology

concentration in Health and Human Performance

concentration in Horticultural Sciences

concentration in Hydrologic Sciences

concentration in Landscape Architecture

concentration in Mathematics

concentration in Microbiology and Cell Science

concentration in Nuclear and Radiological Engineering

concentration in Philosophy

concentration in Political Science

concentration in Religion

concentration in Sociology

concentration in Soil and Water Science

concentration in Statistics

concentration in Tropical Conservation and Development

concentration in Urban and Regional Planning

concentration in Veterinary Medical Sciences

concentration in Wetland Sciences

concentration in Wildlife Ecology And Conservation

concentration in Women's/Gender Studies

concentration in Zoology

Courses

- www.snre.ufl.edu/graduate/curriculum.htm
- EVR 5322: Scientific Processes in Conservation and Development
- EVR 5705: Natural Resources and Innovation Systems
- EVR 6320: Sustainable Natural Resource Management
- EVR 6933: Seminar
- EVR 6934: Internship
- EVR 6979: Nonthesis Master's Project
- PCB 6971: Research for Master's Thesis
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Soil and Water Science Department

Chair: K. Ramesh Reddy

Graduate Coordinator: Max Teplitski

Complete faculty listing by department: [Follow this link.](#)

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The Department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Soil and Water are vital resources in urban, agricultural, and natural ecosystems. The Soil and Water Science Department (SWSD) provides highly visible leadership in teaching, research, and extension/outreach programs as related to improving the productivity of agriculture with environmentally sound management practices, improving water quality, and protection and conservation of natural resources. Our department is one of the few in the nation that offers a comprehensive research and educational programs (molecular to landscape level) involving terrestrial, wetlands and aquatic ecosystems of the landscape. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place-bound students. Our graduates and postdoctoral fellows are well placed at universities, state and federal agencies, and private industry.

The SWSD programs are designed to meet the changing needs of our clientele at state, national and international levels. To meet new challenges and explore new opportunities, the SWSD's research, teaching, and extension programs are focused in five areas, with broader implication to water quality, carbon sequestration, greenhouse gases, and climate change:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

The Department offers graduate level certificates in Biodegradation and Remediation, Sustainable Land Resource and Nutrient Management, Soil Ecosystem Services, and Wetland and Water Resource Management for both on-campus students and via distance education for place bound students (<http://soils.ifas.ufl.edu/academics/degree-certificates.shtml>).

An additional option offered by the Department is a combined bachelor's/master's degree program that permits a B.S in Soil and Water Science or Interdisciplinary Studies – Environmental Management in Agriculture and Natural Resources and M.S. Degree to be completed in five years. Contact the graduate coordinator for more information.

For more information, please see the program page below and our website: <http://soils.ifas.ufl.edu>.

Other

Soil and Water Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Soil and Water Science Department](#)

Soil and Water Science Program Information

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Students can also develop specializations in several interdisciplinary areas including biogeochemistry, ecology, geographic information systems, hydrologic science, tropical agriculture, turfgrass management, and wetland science. The Department emphasizes (but is not limited to) the following research areas:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

Interests of the student and faculty, the facilities, and funding available will determine the student's research area. A specific program of study is prepared by an appointed supervisory committee for each student. Students will present a thesis or dissertation in their major field (M.S. thesis option and Ph.D.). In addition, Ph.D. candidates must pass a qualifying examination covering several areas of soil and water science and related fields.

Prerequisites: Students who expect to do graduate work in the Soil and Water Science Department should hold a bachelor's degree from an accredited college or university with a major in soil and water science or the equivalent background in another field of science. Graduate students should have backgrounds in biology, chemistry, physics, and mathematics and knowledge of basic soil and water science.

For more information, please see our website: <http://soils.ifas.ufl.edu>.

Degrees Offered with a Major in Soil and Water Science

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Agroecology

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Soil and Water Science Departmental Courses

- ALS 5027: Reusable Learning Objects
- ALS 5155: Global Agroecosystems
- CWR 6537: Contaminant Subsurface Hydrology
- SWS 5050: Soils for Environmental Professionals
- SWS 5050L: Soils for Environmental Professionals Laboratory
- SWS 5115: Environmental Nutrient Management
- SWS 5132: Tropical Soil Management
- SWS 5182: Earth System Analysis
- SWS 5208: Sustainable Agricultural and Urban Land Management
- SWS 5234: Environmental Soil, Water, and Land Use
- SWS 5235: South Florida Ecosystems
- SWS 5224: Environmental Biogeochemistry
- SWS 5246: Water Resource Sustainability
- SWS 5247: Hydric Soils
- SWS 5248: Wetlands and Water Quality
- SWS 5305C: Soil Microbial Ecology
- SWS 5308: Ecology of Waterborne Pathogens
- SWS 5406: Soil and Water Chemistry
- SWS 5424C: Soil Chemical Analysis
- SWS 5551: Soils, Water, and Public Health
- SWS 5605C: Environmental Soil Physics
- SWS 5716C: Environmental Pedology
- SWS 5721C: GIS in Land Resource Management
- SWS 5805: Environmental Soil and Water Monitoring Techniques
- SWS 6134: Soil Quality
- SWS 6136: Soil Fertility
- SWS 6161: Bioavailability of Soil Nutrients
- SWS 6262: Soil Contamination and Remediation
- SWS 6323: Advanced Microbial Ecology
- SWS 6325: Rhizosphere Biochemistry
- SWS 6366: Biodegradation and Bioremediation
- SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6722: Soil-Landscape Modeling
- SWS 6905: Special Problems
- SWS 6910: Supervised Research
- SWS 6931: Seminar
- SWS 6932: Topics in Soils
- SWS 6940: Supervised Teaching
- SWS 6971: Research for Master's Thesis
- SWS 7979: Advanced Research
- SWS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Wildlife Ecology and Conservation Department

[College of Agricultural and Life Sciences](#)

Chair: Eric C. Hellgren

Graduate Coordinator: Kathryn E. Sieving

Complete faculty listing by department: [Follow this link.](#)

The Department of Wildlife Ecology and Conservation offers Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees in wildlife ecology and conservation. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Program emphases include wildlife biology, ecology, and management; landscape ecology and restoration; human dimensions; tropical and international conservation; and conservation education. Graduate students should have appropriate undergraduate training in the biological, social, and physical sciences including physics, chemistry, and mathematics. Students with inadequate backgrounds may be required to take (without credit at the graduate level) remedial undergraduate courses pertinent to their fields of interest.

For more information, please see our website: <http://www.wec.ufl.edu>.

Other

Wildlife Ecology and Conservation

College

[College of Agricultural and Life Sciences](#)

Department/School

[Wildlife Ecology and Conservation Department](#)

Wildlife Ecology and Conservation Program

The Department of Wildlife Ecology and Conservation offers a breadth of graduate programs that are designed to prepare students for professional employment in conservation of natural resources in a changing world. WEC faculty teach, conduct research, and provide service and extension in the following areas: avian ecology, behavioral ecology, community ecology, conservation biology, conservation education, conservation genetics, ecosystem management, environmental interpretation, habitat restoration, herpetofaunal ecology, human dimensions of wildlife management, international conservation, introduced species, landscape ecology, mammalian behavior, marine mammal ecology, plant ecology, population biology, range ecology, systems ecology, tropical conservation, urban wildlife relations, wetlands ecology, wildlife diseases, and wildlife management.

The **Doctor of Philosophy (PhD) program** in Wildlife Ecology and Conservation serves graduate students conducting advanced, original studies of fundamental ecological and social sciences (e.g., ecosystem, community, landscape ecology, human dimensions), usually with applications to further society's understanding of wildlife ecology and to improve conservation of wildlife resources.

The **Master of Science (MS) thesis program** in Wildlife Ecology and Conservation: (a) prepares graduate students for entry-level professional positions in areas of wildlife biology and ecology, natural resource management, conservation, and (b) provides a solid scientific foundation for further graduate work leading to the PhD degree.

The **Master of Science, non-thesis (MS) program** in Wildlife Ecology and Conservation provides advanced training for students in technical and professional aspects of wildlife management, conservation, and public education, emphasizing written and oral communication of scientific information.

For more information, please see our website: <http://www.wec.ufl.edu>.

Degrees Offered with a Major in Wildlife Ecology and Conservation

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- WIS 5323C: Impact of Diseases on Wildlife Population
 - WIS 5376
- WIS 5496: Research Design in Wildlife Ecology
- WIS 5521: Plant-Animal Interactions
- WIS 5555C: Conservation Biology
- WIS 6444: Advanced Wetlands Ecology
- WIS 6455: Wildlife Population Ecology
- WIS 6466: Wildlife Population Modeling
- WIS 6468C: Pattern and Process in Landscape Ecology
- WIS 6525: Environmental Interpretation
- WIS 6544: Administration in Natural Resources
- WIS 6575: Mammalian Carnivores: Conservation and Management Issues
- WIS 6578: Human Dimensions of Biological Conservation
- WIS 6905: Research Problems in Wildlife and Range Sciences
- WIS 6910: Supervised Research
- WIS 6933: Seminar
- WIS 6934: Topics in Wildlife and Range Sciences
- WIS 6940: Supervised Teaching
- WIS 6971: Research for Master's Thesis
- WIS 6543: Wildlife and Agriculture

- WIS 7979: Advanced Research
- WIS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

College of the Arts

Dean: L. Lavelli

Complete faculty listings: [Follow this link.](#)

The arts program at UF began in the 1920s to serve the state of Florida's needs. Meeting these needs over the past 80 years has propelled the college to excel on a national and international level and has defined its mission to provide instruction for students seeking professional careers in the arts. In addition to providing rich educational experiences and programs in the arts, the college brings national and international recognition to the university through the high-level professionalism associated with the faculty and alumni, and the competence of students and graduates.

For more information about the College of the Arts, please see our website: <http://www.arts.ufl.edu>

[Departments and Programs within the College of the Arts](#)

[College of the Arts Courses](#)

Other

Arts in Medicine

College

[College of the Arts](#)

Arts in Medicine Program Information

Center for Arts in Medicine Director: Jill Sonke

Center for Arts in Medicine Graduate Advisor: Dylan Klemperer

The Center for Arts in Medicine is committed to advancing research, education, and practice in the arts in healthcare, locally and globally. The Center offers an online Master of Arts in Arts in Medicine. Minimum requirements for the degree are available in the [Graduate Degrees](#) section of this catalog.

Prerequisites and Requirements: Admission to the MA in Arts in Medicine program requires a bachelor's degree in an arts, health, or related field of study, a GRE exam score or previous graduate degree, and completion of the Introduction to the Arts in Healthcare course at UF, or completion of an Arts in Healthcare Summer Intensive, or a minimum of one year of professional experience as an artist or administrator in the field of Arts in Medicine. Requirements of the degree include completion of 35 credits of coursework with a 3.0 or higher GPA.

Commitment of time: The MA in Arts in Medicine is designed to be completed in two years when students are enrolled in one class at a time (with one 8-week semester with two courses). Students should expect to dedicate 16 hours per week to each 8-week 3-credit hour course.

For more information, please see our website: <http://www.arts.ufl.edu/cam>

Degrees Offered with a Major in Arts in Medicine

Master of Arts

Arts in Medicine Courses

Core Curriculum

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- PHC 6104: Evidence-Based Management of Public Health Programs

Practicum

- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum

Electives

- ANG 6930: Special Topics in Anthropology
- GMS 6822: Measuring and Analyzing Health Outcomes II
- HSA 6114: U.S. Health Care System
- HUM6930: Special Topics in Fine Arts
- MVV 6651: Vocal Pedagogy
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- THE 6905: Individual Study

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

School of Art and Art History

[College of the Arts](#)

Director: Richard C. Heipp
Graduate Coordinator: Patrick Grigsby

Complete faculty listing: [Follow this link.](#)

The School of Art and Art History offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. The school also offers Master of Arts degrees in art education, art history, and museology (museum studies) and the Doctor of Philosophy degree in art history. Requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog, and information about each of these graduate programs can be found at the links below.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/art>

Other

Art

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art Program

Master of Fine Arts degree: The school offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. Enrollment is competitive and limited. Candidates for admission should have adequate undergraduate training in art. Deficiencies may be corrected before beginning graduate study. Applicants must submit a portfolio for admission consideration (for comprehensive admission information: <http://www.arts.ufl.edu/programs/grad.aspx>). A minimum of 3 years residency is normally needed to complete the requirements for this degree, which for studio students culminates with an M.F.A. exhibition.

The M.F.A. requires a minimum of 60 credit hours: 24 hours must be in an area of specialization. Normal course requirements include:

- 12 hours of studio electives outside the area of specialization
- 6 hours of art history electives
- 3 hours of outside SA+AH electives (research/discipline appropriate)
- 6 hours of electives
- 6 hours of individual project or thesis research.

Although the M.F.A. is a thesis degree, students usually produce a creative project in lieu of thesis. Students should see the graduate program adviser for the School's requirements for the creative project.

Degrees Offered with a Major in Art

Master of Fine Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology

- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Art Education

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art Education Program

Master of Arts degree in Art Education: The School offers the M.A. in art education. In addition to meeting requirements of the Graduate School for admission, prospective students should:

- Hold a degree in studio art, art history, design, or art education
- Send up to 10 images of original works of art (on CD or in slide form) and a research paper, article, or other sample of academic writing
- Official transcripts from all colleges/universities previously attended
- Statement of professional goals for attending graduate school and earning an M.A. degree in art education
- Current Curriculum Vitae or Resume
- Submit three current letters of recommendation.

The M.A. in art education requires a minimum of 36 credit hours. [ARE 6049](#), [ARE 6148](#), and [ARE 6641](#) are required. The basic plan of study includes 3 credits of an approved art education elective; 9 credits in studio courses; 3 credits in art history; 6 credits in art history, studio, art education, or education electives; 3 credits of [ARE 6746](#); and 3 credits of [ARE 6971](#) or [ARE](#)

[6973](#). To be admitted to candidacy, students must pass a comprehensive examination at the beginning of the second year. The program culminates in an oral examination on the thesis or project in lieu of thesis.

Degrees Offered with a Major in Art Education

Master of Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art

- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Art History

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art History Program

Master of Arts and Doctor of Philosophy degrees in Art History: The School offers graduate programs leading to the M.A. and Ph.D. degrees. For complete details of the M.A. and Ph.D. degree requirements, see the Director of Graduate Studies—Art History. Art History students may participate in courses offered by the State University System's programs in Paris, London, and Florence. Other study-abroad programs may be approved by the director of graduate studies.

For the M.A. degree, the School offers areas of emphasis in Ancient, Medieval, Renaissance/Baroque, Modern, and non-Western art history (including African, Asian, and Oceanic). A minimum of 36 credit hours is required: [ARH 5816](#) (3 credits), 27 hours of course work, and [ARH 6971](#) (6 credits). Required course work includes a minimum of 15 hours with 5 different art history Graduate Faculty (at least 12 hours of this course work must be graduate-level seminars). Nine credits may be taken in related areas with the graduate program adviser's approval. Reading proficiency in a foreign language appropriate to the major area of study must be demonstrated before thesis research is begun. Language courses cannot apply toward degree credit.

For the Ph.D. degree, the School offers the same areas of specialization as for the M.A. degree. Up to 30 credits from the M.A. degree may apply toward the 90 credit Ph.D. degree. A program of 60 credit hours beyond the M.A. degree is required. Core courses will consist of a minimum of 30 hours in art history:

- 18 hours in a primary area (5000-level or above)
- 9 hours in a secondary area (5000-level or above)
- 3 hours of theory/methodology of art history (if [ARH 5816](#) or its equivalent has not been taken as part of the M.A.)
- An additional 12 hours of outside electives taken in other schools or departments are required in a discipline(s) related to the primary area of study
- Finally, 27 hours of dissertation research and writing is required.

By the end of the second semester or equivalent full-time study, students should form their supervisory committee that must include a minimum of four Graduate Faculty members; one of whom must agree to serve as primary dissertation adviser and supervisory committee chair. The supervisory committee will also act as the qualifying examination committee. Normally students will take the qualifying examination during the spring term of the third year in residence. The examination is both written and oral. It will cover the major and minor art history areas of emphasis as well as the student's preliminary formulation of a dissertation topic and provisional statement of the approaches to that topic as expressed in the dissertation prospectus. On successful completion of the qualifying examination, the approval by the supervisory committee of the dissertation prospectus, and fulfilling all other course and language requirements, the student makes formal application for a change of status to Ph.D. candidacy. Normally, a student will be expected to present the completed dissertation and defend it at an oral defense conducted by the supervisory committee by the end of the sixth year in the program. For Ph.D. students, reading knowledge of two research languages other than English must be demonstrated by the end of the second year of course work, or by the end of the first semester in the case of transfer students. Language courses are not applicable toward degree credit.

Degrees Offered with a Major in Art History

Doctor of Philosophy

Master of Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change

- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Museology

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Museology Program Information

Master of Arts degree in Museology (Museum Studies): The School offers this interdisciplinary program that consists of both academic and practical work. The curriculum allows students to do graduate work in a disciplinary emphasis (art history, anthropology, history, education, or the natural sciences, for example) and at the same time complete a concentrated study in professional museum practice. The M.A. degree in museology requires 48 credit hours including:

- 15 credits of museum studies courses (museology seminar, 3 credits; collections management, 3 credits; museum education, 3 credits; exhibitions, 3 credits; special topics, 3 credits)
- 15 graduate credits in a disciplinary focus
- 6 credits of internship
- 6 credits of electives
- 6 credits of individual credit.

Several on-campus sites provide the program with laboratories for training students in museum work, including the University Galleries, Harn Museum of Art, Florida Museum of Natural History, and the gallery at the Reitz Union. Students must complete a 6-credit internship of at least 320 hours at an approved museum. In this experience, students undertake specific projects in which they gain first-hand experience in museum work. The Harn Museum of Art or the Florida Museum of Natural History may be able to oversee a few interns, but students are encouraged to apply for internships at other U.S. institutions or abroad.

A project-in-lieu-of-thesis (or thesis) is selected, researched, and carried out under the direction of a supervisory committee.

Degrees Offered with a Major in Museology

Master of Arts

concentration in Historic Preservation

without a concentration

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works

- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Digital Worlds Institute

[College of the Arts](#)

Director: James C. Oliverio

Graduate Coordinator: Marko Suvajdzic

Complete faculty listing: [Follow this link.](#)

The Digital Worlds Institute exists to nurture leading edge education between the arts, communications, engineering and the sciences, utilizing advanced media systems and digital culture. By bringing together the diverse talents of University of Florida faculty, students, and staff in a multifaceted collaborative environment, the Institute serves as a platform for interdisciplinary research and teaching that would not have occurred within the confines of any one college or department. Through the use of interactive tools and technologies, the Institute promotes transdisciplinary creativity across classrooms, continents and cultures.

For more information, please see the program page below and our website: <http://www.digitalworlds.ufl.edu>.

Other

Digital Arts and Sciences (Arts)

College

[College of the Arts](#)

Department/School

[Digital Worlds Institute](#)

Digital Arts and Sciences (Arts) Program Information

The Master of Arts in Digital Arts & Sciences (DAS) degree seeks to allow students from diverse academic backgrounds the opportunity to develop fluency in the technologies, design practices and collaborative interdisciplinary teamwork increasingly required by the media, communications and entertainment industries. Graduates holding the M.A. in DAS degree would typically seek employment in the creative services sector, applying digital techniques and technologies in a variety of professions. Opportunities range from traditional cinema to interactive games; from broadcast media to online international networks to emergent industries.

Although this is a thesis degree, students usually produce a creative project in lieu of thesis. Students should see the graduate coordinator for the requirements for the creative project, which are also provided in the DAS Student Handbook.

Students seeking admission are expected to have an undergraduate background including:

- A degree in one of the fine arts or liberal arts
- A body of work that demonstrates accomplishment in the intended area
- A body of work that can clearly be enhanced with skills to be acquired in the DAS program.

Deficiencies may be corrected before beginning graduate study. In addition to appropriate academic credentials and prior scholastic achievement, admission into the program requires a well-constructed Statement of Purpose and media-related support material (i.e. samples of design, programming, video, web, writing, etc.) that demonstrates both prior interest and/or achievement in New Media/Digital Arts & Sciences.

Degrees Offered with a Major in Digital Arts and Sciences

Master of Arts

Digital Worlds Departmental Courses

- DIG 5555C: Digital Media Projection Design I
- DIG 5931C: Special Topics
- DIG 6027C: Interactive Storytelling
- DIG 6028: Roots of Digital Culture
- DIG 6050C: Entertainment Technology
- DIG 6125C: Digital Design & Visualization
- DIG 6126C: Interaction Design
- DIG 6256C: Audio Design For Digital Production
- DIG 6358C: APPLIED 3D MODELING
- DIG 6556C: Digital Media Projection Design II
- DIG 6589C: Digital Portfolio
- DIG 6719: Videogame Theory and Analysis
- DIG 6744C: Movement, Media and Machines
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- DIG 6751C: Protocols for Multimedia Interfaces
- DIG 6788C: Digital Production & Game Design
- DIG 6840C: Interdisciplinary Research Seminar in Digital Arts & Sciences
- DIG 6850C: Digital Arts & Sciences Convergence
- DIG 6906: Independent Study - Graduate Level
- DIG 6950C: Digital Performance Production
- DIG 6971: Research for Master's Thesis
- DIG 6973: Capstone Project in Lieu of Thesis
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Music Department

[College of the Arts](#)

Director: J. A. Duff.

Graduate Coordinator: L. S. Odom.

Complete faculty listing by department: [Follow this link.](#)

The School of Music offers programs leading to the Master of Music degree in music and music education. Program concentrations in music include choral conducting, composition, instrumental conducting, musicology, ethnomusicology, music theory, performance, and sacred music. In addition, the School of Music offers the Doctor of Philosophy degree in music and in music education.

The Ph.D. program in music education emphasizes college music teaching. The Ph.D. program in music includes concentrations in:

- Music history and literature, with options in traditional musicology and ethnomusicology
- Composition, with options in acoustic and electroacoustic specialization

All Ph.D. students are encouraged to find opportunities to teach and lecture in their specializations; and with the assistance of their principal professors, to prepare papers, workshops, and clinics for presentation at professional conferences, in the public schools, and at colleges and universities. Students also are encouraged to publish their research in appropriate journals. Minimum requirements for the M.M. and Ph.D. degrees are given in the General Information section of this catalog. The week before classes begin, students must take placement examinations in music history and in music theory. Students wanting to study privately in a performance studio must be auditioned and accepted by the appropriate area faculty. Voice students must demonstrate appropriate skills in language and diction. All deficiencies must be remedied.

For more information, please see the program pages below and our website: <http://www.arts.ufl.edu/welcome/music>.

Other

Music

College

[College of the Arts](#)

Department/School

[Music Department](#)

Music Program Information

The Master of Music (M.M.) degree is offered in music or music education. The music program offers the following concentrations: choral conducting, composition, electronic music, ethnomusicology, instrumental conducting, music education, music history and literature, music theory, performance, and sacred music. The M.M. degree prepares students for careers as teachers in studios, schools, and universities; performers; music historians; music critics; church musicians; composers; conductors; and accompanists.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/music>

Degrees Offered with a Major in Music

Doctor of Philosophy

without a concentration

concentration in Composition

concentration in Music History and Literature

Master of Music

without a concentration

concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Electronic Music

optional second concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Ethnomusicology

concentration in Ethnomusicology

optional second concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Electronic Music

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

concentration in Instrumental Conducting

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music Education

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music History and Literature

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music Theory

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Performance

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Sacred Music

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performace

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Music Departmental Courses

- DIG 6288: Music and Sound Design for Digital Media
- MUC 5315: Introduction to Electroacoustic Music
- MUC 6444: Composition of Electronic Music
- MUC 6445: Electroacoustic Music Composition: Digital I
- MUC 6446: Electroacoustic Music Composition--Digital II
- MUC 6900: Secondary Graduate Composition
- MUC 6930: Graduate Composition
- MUC 6932: Composition Seminar
- MUC 7447: Advanced Seminar in Electroacoustic Music
- MUC 7931: Advanced Graduate Composition
- MUC 7938: Seminar in Digital Sound Processing, Control, and Composition
- MUE 6080: Historical and Philosophical Foundations of Music Education
- MUE 6385: Music in Higher Education
- MUE 6399: Creative Thinking in Music
- MUE 6444: Materials and Methods of String Class Teaching
- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- MUE 6696: Technology Assisted Music Learning

- MUE 6747: Assessing Music Learning
- MUE 6785: Research in Music Education
- MUE 6790: Capstone Project for Music Education
- MUE 6931: Instructional Design in Music Education
- MUE 7746: Measurement and Evaluation of Music
- MUE 7938: Music Education Seminar
- MUG 6105: Graduate Conducting
- MUG 7106: Advanced Graduate Conducting
- MUH 5219: Graduate Music History Review
- MUH 5505: Introduction to Ethnomusicology
- MUH 5684: Introduction to Historical Musicology
- MUH 6526: American Vernacular Music
- MUH 6545: The Guitar in Latin American Culture
- MUH 6548: Seminar in Caribbean Music
- MUH 6549: Seminar in Brazilian Music
- MUH 6635: Seminar in American Music
- MUH 6665: History of Opera
- MUH 6671: Seminar in Renaissance Music
- MUH 6672: Seminar in Baroque Music
- MUH 6673: Seminar in Classical Music
- MUH 6674: Seminar in Nineteenth-Century Music
- MUH 6675: Seminar in Twentieth-Century Music
- MUH 6931: Nationalism in Music
- MUH 6935: Special Topics in Music History
- MUH 7411: Medieval and Renaissance Notation
- MUH 7938: Musicology Seminar
- MUL 6435: String Literature
- MUL 6486: Piano Literature
- MUL 6495: Graduate Organ Literature
- MUL 6555: Survey of Wind Literature
- MUL 6565: Chamber Music Literature
- MUL 6645: Choral Literature
- MUN 6010: Graduate Ensemble
- MUN 6125: Concert Band
- MUN 6135: Symphonic Band
- MUN 6145: Symphonic Wind Ensemble
- MUN 6215: University Orchestra
- MUN 6315: University Choir
- MUN 6325: Women's Chorale
- MUN 6335: Men's Glee Club
- MUN 6445: Percussion Ensemble
- MUN 6495: Steel Drum Ensemble
- MUN 6496: World Music Ensemble
- MUN 6497: New Music Ensemble
- MUN 6715: Jazz Band
- MUR 6206: Survey of Hymnody
- MUR 6705: Sacred Music Literature
- MUS 5911: Directed Study
- MUS 6685: Psychology of Music
- MUS 6716: Methods of Musical Research and Bibliography
- MUS 6905: Projects and Problems
- MUS 6910: Supervised Research
- MUS 6940: Supervised Teaching
- MUS 6971: Research for Master's Thesis
- MUS 6973: Individual Project
- MUS 7656: Teaching Music and the Creative Process
- MUS 7905: Projects and Problems
- MUS 7979: Advanced Research
- MUS 7980: Research for Doctoral Dissertation
- MUT 6051: Graduate Music Theory Review
- MUT 6445: Advanced Counterpoint
- MUT 6531: Figured Bass and Continuo Performance
- MUT 6565: Late Nineteenth- and Twentieth-Century Styles
- MUT 6576: Contemporary Styles
- MUT 6617: Approaches to Theoretical Analysis in Music Education
- MUT 6624: Seminar in Set Theory
- MUT 6627: Seminar in Reductive Analysis
- MUT 6629: Analytical Techniques
- MUT 6751: Pedagogy of Music Theory
- MUT 6936: Music Theory Seminar
- MUT 7316: Advanced Orchestration
- MUT 7585: Seminar in Musical Style
- MUT 7760: History of Music Theory
- MKK 5156: Improvisational Keyboard Skills and Related Technology
- MKK 6605: Organ Pedagogy
- MKK 6651: Piano Pedagogy
- MKK 6661: Advanced Piano Pedagogy
- MVO 6250: Secondary Music Performance
- MVO 6460: Music Performance
- MVO 7460: Music Performance
- MVS 6651: String Pedagogy I
- MVV 6651: Vocal Pedagogy

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Music Education

College

[College of the Arts](#)

Department/School

[Music Department](#)

Music Education Program Information

The Master of Music (M.M.) degree is offered in music or music education. The music education program offers the following concentrations: choral conducting, composition, electronic music, ethnomusicology, instrumental conducting, music history and literature, music theory, performance, and piano pedagogy. The M.M. degree prepares students for careers as teachers in studios, schools, and universities; performers; music historians; music critics; church musicians; composers; conductors; and accompanists.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/music>

Degrees Offered with a Major in Music Education

Doctor of Philosophy

Master of Music

Without a Concentration

Concentration in Choral Conducting

optional second concentration in Piano Pedagogy

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance**optional second concentration in Electronic Music****optional second concentration in Ethnomusicology**

Concentration in Composition

*optional second concentration in Choral Conducting**optional second concentration in **Piano Pedagogy****optional second concentration in **Instrumental Conducting****optional second concentration in **Music History and Literature****optional second concentration in **Music Theory****optional second concentration in **Performance****optional second concentration in **Electronic Music****optional second concentration in **Ethnomusicology***

Concentration in Electronic Music

*optional second concentration in Choral Conducting**optional second concentration in **Composition****optional second concentration in **Instrumental Conducting****optional second concentration in **Music History and Literature****optional second concentration in **Music Theory****optional second concentration in **Performance****optional second concentration in Piano Pedagogy**optional second concentration in **Ethnomusicology***

Concentration in Ethnomusicology

*optional second concentration in Choral Conducting**optional second concentration in **Composition****optional second concentration in **Instrumental Conducting****optional second concentration in **Music History and Literature****optional second concentration in **Music Theory***

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Piano Pedagogy**

Concentration in Instrumental Conducting

optional second concentration in Piano Pedagogy

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Concentration in Music History and Literature

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Composition**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Music Theory

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Piano Pedagogy**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Performance

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in Composition

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Piano Pedagogy

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Music Departmental Courses

- DIG 6288: Music and Sound Design for Digital Media
- MUC 5315: Introduction to Electroacoustic Music
- MUC 6444: Composition of Electronic Music
- MUC 6445: Electroacoustic Music Composition: Digital I
- MUC 6446: Electroacoustic Music Composition--Digital II
- MUC 6900: Secondary Graduate Composition
- MUC 6930: Graduate Composition
- MUC 6932: Composition Seminar
- MUC 7447: Advanced Seminar in Electroacoustic Music
- MUC 7931: Advanced Graduate Composition
- MUC 7938: Seminar in Digital Sound Processing, Control, and Composition
- MUE 6080: Historical and Philosophical Foundations of Music Education
- MUE 6385: Music in Higher Education
- MUE 6399: Creative Thinking in Music
- MUE 6444: Materials and Methods of String Class Teaching
- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- MUE 6696: Technology Assisted Music Learning
- MUE 6747: Assessing Music Learning
- MUE 6785: Research in Music Education
- MUE 6790: Capstone Project for Music Education
- MUE 6931: Instructional Design in Music Education
- MUE 7746: Measurement and Evaluation of Music
- MUE 7938: Music Education Seminar
- MUG 6105: Graduate Conducting
- MUG 7106: Advanced Graduate Conducting
- MUH 5219: Graduate Music History Review
- MUH 5505: Introduction to Ethnomusicology
- MUH 5684: Introduction to Historical Musicology
- MUH 6526: American Vernacular Music
- MUH 6545: The Guitar in Latin American Culture
- MUH 6548: Seminar in Caribbean Music
- MUH 6549: Seminar in Brazilian Music
- MUH 6635: Seminar in American Music
- MUH 6665: History of Opera
- MUH 6671: Seminar in Renaissance Music
- MUH 6672: Seminar in Baroque Music
- MUH 6673: Seminar in Classical Music
- MUH 6674: Seminar in Nineteenth-Century Music
- MUH 6675: Seminar in Twentieth-Century Music
- MUH 6931: Nationalism in Music
- MUH 6935: Special Topics in Music History
- MUH 7411: Medieval and Renaissance Notation
- MUH 7938: Musicology Seminar
- MUL 6435: String Literature
- MUL 6486: Piano Literature
- MUL 6495: Graduate Organ Literature
- MUL 6555: Survey of Wind Literature
- MUL 6565: Chamber Music Literature
- MUL 6645: Choral Literature
- MUN 6010: Graduate Ensemble
- MUN 6125: Concert Band
- MUN 6135: Symphonic Band
- MUN 6145: Symphonic Wind Ensemble
- MUN 6215: University Orchestra
- MUN 6315: University Choir
- MUN 6325: Women's Chorale
- MUN 6335: Men's Glee Club
- MUN 6445: Percussion Ensemble
- MUN 6495: Steel Drum Ensemble
- MUN 6496: World Music Ensemble
- MUN 6497: New Music Ensemble
- MUN 6715: Jazz Band
- MUR 6206: Survey of Hymnody
- MUR 6705: Sacred Music Literature
- MUS 5911: Directed Study
- MUS 6685: Psychology of Music
- MUS 6716: Methods of Musical Research and Bibliography
- MUS 6905: Projects and Problems
- MUS 6910: Supervised Research
- MUS 6940: Supervised Teaching
- MUS 6971: Research for Master's Thesis
- MUS 6973: Individual Project
- MUS 7656: Teaching Music and the Creative Process
- MUS 7905: Projects and Problems
- MUS 7979: Advanced Research
- MUS 7980: Research for Doctoral Dissertation
- MUT 6051: Graduate Music Theory Review
- MUT 6445: Advanced Counterpoint
- MUT 6531: Figured Bass and Continuo Performance
- MUT 6565: Late Nineteenth- and Twentieth-Century Styles
- MUT 6576: Contemporary Styles
- MUT 6617: Approaches to Theoretical Analysis in Music Education
- MUT 6624: Seminar in Set Theory

- MUT 6627: Seminar in Reductive Analysis
- MUT 6629: Analytical Techniques
- MUT 6751: Pedagogy of Music Theory
- MUT 6936: Music Theory Seminar
- MUT 7316: Advanced Orchestration
- MUT 7585: Seminar in Musical Style
- MUT 7760: History of Music Theory
- MK 5156: Improvisational Keyboard Skills and Related Technology
- MK 6605: Organ Pedagogy
- MK 6651: Piano Pedagogy
- MK 6661: Advanced Piano Pedagogy
- MO 6250: Secondary Music Performance
- MO 6460: Music Performance
- MO 7460: Music Performance
- MS 6651: String Pedagogy I
- MV 6651: Vocal Pedagogy

School of Theatre and Dance

Director: J. Dickey

Graduate Performance Program Coordinator: Ralf Remshardt

Graduate Design Program Coordinator: S. Kaye

Complete faculty listing by department: [Follow this link.](#)

The graduate program offered by the School of Theatre and Dance leads to the degree of Master of Fine Arts in Theatre. Minimum requirements for this degree are given in the *General Information* section of this catalog.

The M.F.A. degree prepares students for professional entry in acting, production, or teaching. Placement in the M.F.A. program is determined by audition/portfolio review, academic credentials, and personal interview. Candidates for admission should have adequate training in theatre. Deficiencies may be corrected before beginning graduate study.

The program emphasizes the study and practice of theatre as an art and discipline. Students of acting and design study concepts of theatre together while working in their areas of specialization. Focus is on the collaboration and synthesis of theatre artistry. Each incoming class is composed of approximately 12 to 18 students in acting and all design areas.

The student's artistic and academic progress will be reviewed at the end of each semester. The *School of Theatre Handbook* gives details on the form and focus of each review. This information is online at <http://www.arts.ufl.edu/theatreanddance/pages/whatyouneedtoknow/downloads/downloads.asp>.

During the final year of study, each student must successfully complete the comprehensive examination and oral defense. The project in lieu of thesis includes research, analysis, rehearsal process, and evaluation. Development and execution of the project includes public performance (acting or design). The written document and oral defense of the project which follow must demonstrate the ability to communicate the creative process.

Graduate acting students audition for all departmental productions.

Other

Theatre

College

[College of the Arts](#)

Department/School

[School of Theatre and Dance](#)

Degrees Offered with a Major in Theatre

Master of Fine Arts

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar

- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Theatre and Dance Departmental Courses

- ARC 6670: Lighting Design Seminar
- DAN 6436: Laban Movement Analysis
- DAA6757: Pilates Technique for the Dancer
- DAA6905: Graduate Dance Project
- DAN 6949: Dance Clinical Practice
- THE 5238: African-American Theatre History and Practice
- THE 5287: History of Decor and Architecture for the Stage
- THE 5910: Introduction to Graduate Study in Theatre
- THE 6265: Costume History
- THE 6525: History, Literature, and Criticism I
- THE 6526: History, Literature, and Criticism II
- THE 6565: Seminar in Creative Process
- THE 6905: Individual Study
- THE 6940: Supervised Teaching
- THE 6941: Internship
- THE 6950: Applied Theatre
- THE 6955: Summer Repertory Theatre
- THE 6971: Research for Master's Thesis
- THE 6973C: Project in Lieu of Thesis
- TPA5025: Lighting Design I
- TPA5047: Costume Design I
- TPA5067: Scene Design I
- TPA5072: Drawing and Rendering
- TPA5079: Graduate Scene Painting
- TPA5082: Advanced Theatre Graphics
- TPA5236: Costume Technologies Workshop
- TPA6005: Design I
- TPA6006: Design II
- TPA6009: Design Studio
- TPA6026: Lighting Design II
- TPA6048: Costume Design II
- TPA6054: Detail Design for Costume Designers
- TPA6069: Scene Design II
- TPA6235: Costume Construction
- TPA6237: Pattern Making: Flat Patternmaking
- TPA6243: Pattern Making: Draping
- TPA6258: Computer Drafting 2D
- TPA6357: Programming and Presentation for the Lighting Designer
- TPP 5234: Multi-Cultural Performance Workshop
- TPP 6115: Graduate Acting I: Modern Acting Theory and Practice
- TPP 6116: Graduate Acting II: Shakespeare and High Style
- TPP 6145: Graduate Acting III: Period Styles
- TPP 6149: Acting IV: Contemporary Realism
- TPP 6225: Professional Seminar: Acting
- TPP 6237: MFA Company Acting Workshop
- TPP 6266: Acting for the Camera
- TPP 6285: Voice and Movement I
- TPP 6286: MFA Voice and Speech II: Shakespeare and High Styles
- TPP 6297: The Alexander Technique I
- TPP 6298: The Alexander Technique II
- TPP 6299: The Alexander Technique III
- TPP 6385: Directing
- TPP 6515: Graduate Movement Training
- TPP 6536: Graduate Stage Combat
- TPP 6717: MFA Voice and Speech III: Period Styles
- TPP 6718: MFA Voice and Speech IV: Advanced Vocal Training for the Actor
- TPP 6946: Performance Practicum

Warrington College of Business Administration

Dean: Jamie Kraft

Complete faculty listings: [Follow this link.](#)

Graduate degrees offered by the Warrington College of Business Administration are the Doctor of Philosophy with major programs in business administration and in economics; the Master of Arts with major programs in economics, in international business, and in business administration with concentrations in insurance and marketing; the Master of Science with major programs in Information Systems and Operations Management (with a concentration in supply chain management), in finance, in management, in real estate, and in business administration, including concentrations in entrepreneurship, insurance, marketing and retail; the Master of Business Administration; and the Master of Accounting. Fields of concentration and requirements for the M.B.A. are given under [Graduate Degrees](#) of this catalog, as well as admission and degree requirements for the Ph.D., M.A., and M.S. degrees.

Master of Arts: The M.A. degree with a major in international business is designed to provide students with quantitative and application skills to be used in an international business setting. The program provides practical training with a brief study trip to a major international city, where students are required to participate actively in business tours and lectures. The students also have the opportunity to gain credits for the degree by studying at one or more foreign universities for a period of 2 weeks to 8 months.

Master of Science: The M.S. degree with a major in management targets students from nonbusiness backgrounds who would like to gain "core" business knowledge and application skills. Requirements span the traditional business disciplines to produce a sound knowledge base for students seeking a solid business foundation. Students are required to take such courses as accounting, finance, economics, entrepreneurship, management, marketing, organizational behavior, and statistics. Typical positions for graduates include managers, consultants, and analysts.

Doctor of Philosophy: For the Ph.D. in business administration, students must have a concentration in one of the following:

- Accounting
- Information Systems and Operation Management
- Finance
- Insurance
- Management
- Marketing
- Real estate and urban analysis.

Specific requirements for the various departments and specialties are given in the [Graduate Degrees](#) section in this catalog. (Requirements for the Ph.D. degree in economics are described under the *Economics* section of the catalog.) All candidates for the Ph.D. in business administration must satisfy the following general requirements:

Breadth requirement: All applicants for Ph.D. in the business administration program are expected to have completed prior business-related course work at either the advanced undergraduate or graduate level. Students entering without prior work are required to take a minimum of three graduate courses in at least two fields other than their chosen area of concentration. Most often, the appropriate courses will be found in the M.B.A. first-year core; the particular courses to be taken by a student will be decided in consultation with the student's academic adviser. After a student enters the Ph.D. program, the courses taken to satisfy the breadth requirement must be taken in the College of Business Administration.

Research foundations requirement: All students must complete a six-course research skills sequence that prepares them for scholarly research in their chosen area of concentration. Research foundations are defined as essential methodological tools (e.g., statistics, quantitative analysis) and/or substantive content domains (e.g., psychology, economics) outside the student's major field that are considered essential to conducting high quality research in the chosen field. The specific research skills required by each area of concentration can be found in the field descriptions in this Catalog.

Other requirements include satisfactory completion of graduate course work in the major field of concentration, as well as one or two minor fields designed to add depth to the student's research training. Minors are selected by the student in consultation with his or her advisory committee, and may be within or outside the College of Business Administration. Other requirements for the Ph.D. are given in the [Graduate Degrees](#) section of this catalog.

[Departments and Programs within Warrington College of Business Administration](#)

[Warrington College of Business Courses](#)

Other

Business Administration (M.A.)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Master of Arts

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II

- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX5005: Introduction to Federal Income Taxation
- TAX5025: Federal Income Tax 1
- TAX5027: Federal Income Tax 2
- TAX5065: Tax Professional Research
- TAX6105: Corporate Taxation
- TAX6115: Advanced Corporate Taxation
- TAX6205: Partnership Taxation
- TAX6526: International Taxation
- TAX6726: Executive Tax Planning
- TAX6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship

- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law

- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior

- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (M.B.A)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Master of Business Administration

General

concentration in Competitive Strategy

concentration in Entrepreneurship

concentration in Finance

concentration in Global Management

concentration in Graham-Buffett Security Analysis

concentration in Human Resource Management

concentration in Information Systems and Operations Management

concentration in International Studies

concentration in Latin American Business

concentration in Management

concentration in Marketing

concentration in Real Estate

concentration in Sports Administration

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation

- TAX6205: Partnership Taxation
- TAX6526: International Taxation
- TAX6726: Executive Tax Planning
- TAX6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets

- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I

- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development

- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (M.S.)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Master of Science

without a concentration

concentration in Retailing

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1

- TAX5027: Federal Income Tax2
- TAX5065: Tax Professional Research
- TAX6105: Corporate Taxation
- TAX6115: Advanced Corporate Taxation
- TAX6205: Partnership Taxation
- TAX6526: International Taxation
- TAX6726: Executive Tax Planning
- TAX6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management

- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior

- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature

- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Ph.D.)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning

- TAX6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management

- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II

- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations

- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Fisher School of Accounting

[Warrington College of Business Administration](#)

Director: Gary A. McGill

Graduate Coordinators: Dominique DeSantiago, Stephen Asare

Complete faculty listing by department: [Follow this link.](#)

As a professional school in a major public research university, the Fisher School of Accounting (FSOA) is committed to scholarly research, teaching, and service to advance knowledge and prepare future leaders for business, professional, and academic careers.

The Fisher School of Accounting offers graduate work leading to the Master of Accounting (M.Acc.) degree with a major in accounting, and the Ph.D. degree with a major in business administration and an accounting concentration. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below, or visit our website: <http://warrington.ufl.edu/accounting>

Other

Accounting

College

[Warrington College of Business Administration](#)

Department/School

[Fisher School of Accounting](#)

Accounting Program Information

Master of Accounting: Three variations of the Master of Accounting degree program are available. These allow students to select one of three tracks: Audit, Tax, and Generalist. Minimum admission requirements include an acceptable score on the Graduate Management Admission Test (GMAT), with a minimum score of 550 and completion of essays with a minimum score of 4. International students must submit a satisfactory score on the following TOEFL (Test of English as a Foreign Language: paper-based=570, internet-based=86). Additional information, including minimum GPA standards for admission, may be viewed at <http://warrington.ufl.edu/accounting/academics/macc>.

Combined degree program: The recommended curriculum to prepare for a professional career in accounting is the 3/2 five-year program with a joint awarding of the Bachelor of Science in Accounting and Master of Accounting degrees upon completion of the 150-hour program. The entry point into the 3/2 program is the beginning of the senior year.

Traditional Master of Accounting program: Students who have already completed an undergraduate degree in accounting may enter the 1-year M.Acc. degree program which requires satisfactory completion of 34 hours of course work. A minimum of 28 credits must be in graduate-level courses; a minimum of 20 credits must be in graduate-level accounting courses. The remaining credits are selected from recommended elective courses that vary by area of specialization. Students are cautioned to seek early advisement, since many graduate courses are offered only once a year.

J.D./M.Acc. program: A joint program leading to the Juris Doctor and Master of Accounting degrees is offered by the Fisher School of Accounting and Levin College of Law. Specific details for the M.Acc., J.D./M.Acc., and Ph.D. programs are available at <http://warrington.ufl.edu/accounting/academics/jd-macc>.

Degrees Offered with a Major in Accounting

Master of Accounting

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Business Administration (Accounting)

College

[Warrington College of Business Administration](#)

Department/School

[Fisher School of Accounting](#)

Business Administration (Accounting) Program Information

The Ph.D. program offers a broad-based interdisciplinary training that prepares students to conduct both empirical and analytical research. The curriculum consists of course work of four types: the major field, a breadth requirement, a research foundation requirement, and a minor or supporting field. In addition, students must demonstrate competence in conducting research and teaching, and must complete a dissertation on an accounting topic.

The major field in accounting consists of at least 18 credit hours of course work including research analysis, archival research, analytical research, experimental research, readings, and a research project. The breadth requirement consists of at least 13 credit hours of course work including microeconomic theory, corporate finance theory, game theory, asset pricing, and information economics. The research foundation requirement consists of at least 12 hours of graduate course work in mathematical economics, statistics, or econometrics. The minor or supporting field requirement is met by completing a minimum of 12 hours of graduate course work in the selected field.

Students demonstrate competency in conducting research by completing a research project in the summers of the first and second year. The teaching competence is demonstrated by completing at least 1 hour (but no more than 5 hours) of supervised teaching and by teaching for at least 2 semesters. Admission requirements include a history of academic excellence, adequate score on the GMAT (the average score of recently admitted applicants is 690 for GMAT), competence in written and spoken English (TOEFL Internet-Based test (iBT) required for applicants whose native language is not English), appreciation of accounting issues, and institutional and math competency. The school requires a total score of 91, including a minimum of 26 on the speaking section.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Accounting

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods II

- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II

- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics

- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection

- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Economics Department

Chair: R. D. Blair

Graduate Coordinator: S. M. Slutsky.

Complete faculty listing: [Follow this link.](#)

The department offers the Master of Arts (thesis and nonthesis option) and Doctor of Philosophy degrees in economics with specializations in econometrics, economic theory, industrial organization, international economics, monetary economics, and public finance.

M.A. requirements: A minimum of 36 credits of course work is required for the M.A. with and without thesis. A maximum of six credits of the research course [ECO 6971](#) may be included for a master's degree with thesis. The following core courses are required: [ECO 7408](#) and [ECO 7404](#) or equivalent, [ECO 7415](#) or equivalent, [ECO 7115](#), and [ECO 7206](#).

Ph.D. requirements: Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) an acceptable score on the GRE, and (c) for nonnative speakers of English,

an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

All core courses must be completed in the first year. In addition, students must complete courses in three fields of specializations and pass qualifying examinations in two of those fields.

Complete descriptions of the minimum requirements for the M.A. and Ph.D. degrees are provided elsewhere in this catalog.

Other

Economics

College

[Warrington College of Business Administration](#)

Department/School

[Economics Department](#)

Degrees Offered with a Major in Economics

Doctor of Philosophy

Master of Arts

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations

- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Finance, Insurance, and Real Estate Department

Chair: Michael D. Ryngaert

Graduate Coordinator: Mahen Nimalendran

Complete faculty listing: [Follow this link.](#)

The Department of Finance, Insurance, and Real Estate offers graduate work leading to the Master of Science degree with major programs in finance and real estate; the Master of Science in Entrepreneurship (M.S.E.); and the Doctor of Philosophy degree in business administration with a concentration in finance, insurance, quantitative analysis, or real estate. Complete descriptions of the minimum requirements for the M.S., M.S.E., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

Finance, Real Estate, and Entrepreneurship are also available as concentrations within the M.B.A. program. For information about the M.B.A. program, please consult that listing in the [Graduate Degrees](#) section.

For more information see the program pages below, and visit our website: <http://warrington.ufl.edu/departments/fire>.

Other

Business Administration (Finance, Insurance, and Real Estate)

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Business Administration (Finance, Insurance, and Real Estate) Program Information

The Ph.D. in Business Administration - Finance and Real Estate program prepares students to engage in productive scholarly research and teaching in the broad area of financial and real estate economics. Graduates of this program typically are placed with major universities in the United States, although some students choose to work in research positions at non-academic institutions.

The Ph.D. program has a strong emphasis on scholarly research training. Admission requirements include (a) minimum grade point average of 3.5 in the last two years of an undergraduate program and in any previous graduate-level work, (b) minimum GRE score of 1300 or GMAT score of 600 (both verbal and quantitative scores must exceed the sixtieth percentile), and (c) (for nonnative speakers of English) a minimum score of 550 on the TOEFL. Generally students will not be admitted to the Ph.D. program unless they have been offered financial assistance by

the University.

Finance

The student pursuing a concentration in finance typically specializes in corporate finance, financial markets and institutions, or investments. The Ph.D. curriculum consists of course work of four types: research foundations, the major field, a minor or supporting field, and a breadth requirement.

The research foundation requirements are comprised of courses in microeconomic theory, macroeconomic theory, mathematical methods and applications to economics, mathematical statistics, and econometrics. The actual courses will depend on the student's background and proposed thesis research.

The major field in finance consists of at least 16 credit hours in graduate course work in finance including financial theory, corporate finance, and seminars in empirical methods, market micro structure, and special topics. Students may elect to have one "strong" minor (16 credit hours), two "weak" minors (8 credit hours each), or a supporting field which is not declared as a minor. If a supporting field is chosen, at least 16 hours of course work acceptable to the student's supervisory committee must be taken. The supporting field option is selected when a student wishes to take courses across a number of departments. The department offers a combined B.S./M.S. program. Contact the graduate coordinator for information.

The breadth requirement applies only to students with no prior course work in business and consists of financial and managerial accounting or their equivalents, plus two courses out of the following areas: managerial economics, production operations management, or problems and methods in marketing management.

Real Estate

The research foundations are identical to those listed above for finance. The major field, minor, and supporting field requirements have the same credit stipulation as those outlined above for finance, except that the major work is in real estate.

The breadth requirement, as in all concentrations for the business administration program, applies only to students entering without prior course work in business. It consists of at least three courses from the following list (two or more fields must be represented): managers and legal environment of business, finance, money and capital markets, problems and methods of marketing management, consumer behavior, and financial and managerial accounting.

Other degree requirements are listed in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-fre>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Finance

concentration in Insurance

concentration in Quantitative Finance

concentration in Real Estate and Urban Analysis

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management

- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy

- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Information Systems and Operations Management Departmental Courses

- ISM 5021: Information Systems in Organizations
- ISM 6022: Management Information Systems
- ISM 6123: Systems Analysis and Design
- ISM 6128: Advanced Business Systems Design and Development I
- ISM 6129: Advanced Business Systems Design and Development II
- ISM 6215: Business Database Systems I
- ISM 6216: Business Database Systems II
- ISM 6217: Database Management Systems
- ISM 6222: Business Telecom Strategy and Applications I
- ISM 6223: Business Telecom Strategy and Applications II
- ISM 6224: Business Telecom Strategy and Applications III
- ISM 6226: Business Telecom Strategy and Applications
- ISM 6236: Business Objects I
- ISM 6239: Business Objects II
- ISM 6257: Intermediate Business Programming
- ISM 6258: Advanced Business Programming
- ISM 6259: Business Programming
- ISM 6405: Business Intelligence
- ISM 6423: Data Analysis for Decision Support
- ISM 6485: Electronic Commerce and Logistics
- ISM 6486: eCommerce Technologies
- ISM 6487: Risks and Controls in eCommerce
- ISM 6942: Electronic Commerce Practicum
- ISM 7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions

- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research

- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Entrepreneurship

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Entrepreneurship Program Information

The Masters of Science in Entrepreneurship (M.S.E.) program is a one-year, 36-credit, campus-based program designed for young and aspiring entrepreneurs and change-makers. Offered to both business and non-business majors alike, the program is a combination of classroom delivery and experiential learning activities with a focus on opportunity assessment, feasibility analysis, lean entrepreneurial concept testing, business plan development, entrepreneurial leadership, and the sourcing of capital. Students are exposed to cutting edge entrepreneurial theory, which they apply immediately by consulting for small business, commercializing UF technology, and creating their own businesses.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/mse>.

Degrees Offered with a Major in Entrepreneurship

Master of Science in Entrepreneurship

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship

- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate

- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Finance

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Finance Program Information

The student pursuing a major in finance typically specializes in corporate finance, financial markets and institutions, or investments.

Master of Science degree in Finance, nonthesis option: This M.S. program option consists of at least 32 credits in letter-graded courses. It is designed to ensure that each student acquires a basic knowledge of the major financial economics subject areas: corporate finance, derivatives, fixed income securities, investments, international finance, and real estate. The program is designed to prepare students with an undergraduate background in finance for positions in commercial banking, money management, investment banking, and securities markets.

The Department also offers a combined bachelor's/master's program. Contact the admissions director for information.

Master of Science degree in Finance/juris doctorate joint degree program: This joint degree program culminates in the M.S. and J.D. degrees. Applicants must meet the entrance requirements for both the Warrington College of Business Administration and the Levin College of Law. Admission to the second degree program is required no later than the end of the second consecutive semester after beginning one degree in the joint program.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/msf>.

Degrees Offered with a Major in Finance

Master of Science

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics

- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
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- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
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- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
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- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
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- REE 6397: Real Estate Securities and Portfolios
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- REE 6948: Capstone Seminar and Applied Project
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- REE 7979: Advanced Research
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Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
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Real Estate

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Real Estate Program Information

The ten-month, full-time in residence, Nathan S. Collier Master of Science in Real Estate (MSRE) Program, housed in the Warrington College of Business Administration (WCBA), thrives on innovation, a dynamic student body, significant interaction with high-level working professionals, and nationally recognized professors. The program is a unique combination of theory and practice that will both enhance your real estate education and develop your professional skills.

Master of Science degree in real estate, nonthesis option: This M.S. option consists of at least 34 credits of letter-graded courses. It is designed to ensure that each student acquires a basic knowledge of the various functional areas in real estate, real estate finance and investment, real estate development, real estate law and institutions, real estate asset management, international real estate, and advanced training in specialized areas. The capstone course (REE 6948) involves actual projects in which students work in teams to undertake a real estate problem for real clients. This two-tiered program of study provides both a firm theoretical foundation for later professional effectiveness and an applied bridge to professional practice.

Master of Science degree in real estate/juris doctorate joint program: This joint degree program culminates in the M.S. and J.D. degrees. Applicants must meet the entrance requirements for both the Warrington College of Business Administration and the Levin College of Law. Admission to the second degree program is required no later than the end of the second consecutive semester after beginning one degree of the joint program.

The Department also offers a combined bachelor's / master's program for all undergraduate disciplines.

For more information, please contact the admissions director and see our website: <http://warrington.ufl.edu/graduate/academics/msre>.

Degrees Offered with a Major in Real Estate

Master of Science

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
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- ENT 6930: Special Topics

- ENT 6933: Entrepreneurship Lecture Series
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- GEB 6366: Fundamentals of International Business
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- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Information Systems and Operations Management Department

[Warrington College of Business Administration](#)

Chair: Haldun Aytug

Graduate Coordinator: Praveen Pathak

Complete faculty listing: [Follow this link.](#)

The primary mission of the Department of Information Systems & Operations Management is a commitment to scholarly research, teaching and service to advance the state of knowledge in information systems and supply chain management and to train future leaders for professional and academic careers.

The Department offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Combined Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/isom>.

Other

Business Administration (Information Systems and Operations Management)

College

[Warrington College of Business Administration](#)

Department/School

[Information Systems and Operations Management Department](#)

Business Administration (Information Systems and Operations Management)

The Department of Information Systems & Operations Management offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Doctor of Philosophy: The mission of the Ph.D. Program is to educate scholars who will make substantial contributions in their field of research. Our primary goal is to train graduate students to make such contributions. To achieve this goal, we attempt to place students in productive academic research environments. The major areas of study within the department are Information Systems/Information Technology (IS/IT) and Operations Management (OM).

Students come from a variety of backgrounds, with the most common being engineering computer sciences, mathematics, business, and statistics. Students admitted for the Ph.D. choose to specialize either in information systems/information technology or in operations management. The course schedule taken by each student is always personalized to fit the background of the student and is developed in consultation with the Ph.D. program coordinator and/or chair of the dissertation committee. Additionally, doctoral students will be required to attend all ISOM Workshops and the Department Seminar Series (regardless of area of specialization) held at the University of Florida.

Admission requirements for the Ph.D. include

- A minimum grade point average of 3.2
- A minimum GMAT score of 650, or GRE scores acceptable to the program
- For nonnative speakers of English, submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-isom>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Information Systems and Operations Management

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics

- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
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- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership

- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Information Systems and Operations Management

College

[Warrington College of Business Administration](#)

Department/School

[Information Systems and Operations Management Department](#)

Information Systems and Operations Management Program Information

The Department of Information Systems & Operations Management offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Master of Science: The M.S.ISOM program provides computing, analytical, and application skills to be used in a business setting. The primary areas of emphasis in the M.S.ISOM program are business intelligence and analytics, information systems/information technology, and supply chain management. Requirements span traditional academic disciplines to produce a multiple-discipline focus. Typical positions for graduates include decision support specialist, information systems specialist, systems analyst, and logistic support specialist.

For a student with a bachelor's degree in business or economics, the M.S.ISOM non-thesis on-campus program consists of a minimum of 36 credit hours, normally requiring a minimum of three semesters of study, not including summer. For students without a bachelor's degree in business or economics, the M.S.ISOM non-thesis on-campus program consists of a minimum of 40 credit hours, normally requiring a minimum of four semesters of study, not including summer.

All M.S.ISOM candidates must complete 26 credits of core coursework:

- [GEB 5212: Professional Writing in Business](#)
- [GEB 5215: Professional Communication in Business](#)
- [ISM 6128: Advanced Business Systems Design and Development I](#)
- [ISM 6129: Advanced Business Systems Design and Development II](#)
- [ISM 6215: Business Database Systems I](#)
- [ISM 6222: Business Telecom Strategy and Applications I](#)
- [ISM 6223: Business Telecom Strategy and Applications II](#)
- [ISM 6257: Intermediate Business Programming](#)
- [ISM 6258: Advanced Business Programming](#)
- [ISM 6485: Electronic Commerce and Logistics](#) (capstone course)
- [MAN 6581: Project Management](#)
- [OMB 6358: Statistical Analysis for Managerial Decisions I](#)
- [OMB 6755: Managerial Quantitative Analysis I](#)
- [OMB 6756: Managerial Quantitative Analysis II](#)

All M.S.ISOM candidates must also complete 6 credits of track coursework for the information technology, supply chain management, or business intelligence and analytics track:

Information Technology Track

- [ISM 6216: Business Database Systems II](#)
- [ISM 6236: Business Objects I](#)
- [ISM 6259: Business Programming](#)

Supply Chain Management Track

- [MAN 6511: Production Management Problems](#)
- [MAN 6528: Principles of Logistics/Transportation Systems](#)
- [MAN 6573: Purchasing and Materials Management](#)

Business Intelligence and Analytics Track

- [ISM 6216: Business Database Systems II](#)
- [ISM 6405: Business Intelligence](#)
- [ISM 6423: Data Analysis for Decision Support](#)

These required courses total 32 credit hours. In addition, each M.S.ISOM student with an undergraduate major or minor in business must take a minimum of 4 additional hours of approved graduate business electives for a total of 36 credit hours required for the M.S.ISOM degree. For students without an undergraduate business degree or minor, instead of graduate business electives, they must complete four of the following core business courses: [ACG 5005](#), [ACG 5075](#), [ECP 5702](#), [FIN 5437](#), [FIN 5439](#), [MAN 5246](#), [MAR 5806](#).

Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/ms-isom>.

Degrees Offered With a Major in Information Systems and Operations Management

Master of Science in Information Systems and Operations Management

without a concentration

concentration in Supply Chain Management

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Management Department

[Warrington College of Business Administration](#)

Chair: Robert E. Thomas
Graduate Coordinator: Amir Erez

Complete faculty listing: [Follow this link.](#)

The Management Department offers graduate work leading to a Ph.D. degree with a major in Business Administration and a concentration in Management; a Master of Business Administration degree with a concentration in Management; a Master of Science degree with a major in Management; and a Master of International Business (M.I.B.). Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

The Department participates in combined bachelor's/master's degree programs for the Master of International Business (M.I.B.) and Master of Science (M.S.) with a major in management. The Master of International Business is open to students pursuing a bachelor's degree in a business discipline or minor in business administration. The M.S. with a major in management program is only open to non-business majors. Contact the graduate coordinator for information.

For more information, please see the program pages below and our website: <http://warrington.ufl.edu/departments/mgt>.

Other

Business Administration (Management)

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

Business Administration (Management) Program Information

Doctor of Philosophy

The Ph.D. program in business administration in the Department of Management prepares students for careers as faculty members of universities that emphasize teaching and research. The program is designed so that the student will (1) develop strong competence in the base discipline crucial to the study of organizations and organization processes and (2) follow a field of specialization in organizational behavior, organizational theory, human resource management, and strategic studies. Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) a minimum GRE score of 1000, and (c) for nonnative speakers of English, a minimum score of 550 on the TOEFL.

The research interests of the faculty are quite broad. For example, work is being done on defining the domain of performance in organizations, employee selection, performance appraisal, goal setting and incentives, aging, dispositions and job satisfaction, corporate governance, health care, innovation processes, organizational control and executive compensation practices, agency theory, and organizational processes. Faculty often work on interdisciplinary projects with other departments.

In addition, the student has exposure to scholars and faculty members from other universities, and from other departments in the University, who are invited to give workshops in the Department.

Breadth Requirement: All students pursuing the Ph.D. are expected to be well versed in the structure and functioning of business organizations and the environment within which they operate. This requirement may be met through undergraduate or master's level work in business administration. The student who does not meet the breadth requirement before entering the Ph.D. program must take at least three graduate courses in different functional areas in the Warrington College of Business Administration but outside of the Department of Management. These courses should complement the major area of study selected by the student.

Research Skills Requirement: The general nature of the research requirement has been specified by the Graduate Committee of the Warrington College of Business. Students must take six approved courses to satisfy it. For the typical student in the Department of Management, the research foundation courses include at least 18 credits in courses such as philosophy of social science (e.g., [PHI 5425](#) or [PHI 5405](#)), basic statistical methods (e.g., [STA 6126](#)), research methods (e.g., [MAR 7786](#), [EDF 7486](#), or [PPE 6308](#)), psychometrics (e.g., [EDF 6436](#), [EDF 7439](#)), multivariate analysis ([EDF 7932](#)), experimental design ([MAR 7622](#)), field research methods ([POS 6757](#)), and qualitative research ([EDF 6475](#), [SYA 6315](#)). The specific program is determined by the student's supervisory committee and will be tailored to fit the student's prior preparation and the specialization that the student chooses.

Major Course Requirements: The program of study for each student will include required seminars in Organizational Behavior, Organizational Theory, Strategic Management, and Human Resource Management Research, and the Management Workshop.

Specialization Requirements: Each student selects a specialization area. Courses must provide the depth of knowledge required to teach and conduct research successfully in the area of specialization. This part of the program will be developed by the supervisory committee in conjunction with the student. The specialization courses are primarily offered within the Department of Management, although it is quite common for students to take courses in related disciplines, such as Marketing, Finance, Economics, Psychology, Statistics, and Decision and Information Systems. Procedures for the qualifying examinations, dissertation, and final examination are given in the Requirements for the Ph.D. section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-mgt>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Management

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting

- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation

- HSA6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal

- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

International Business

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

International Business Program

The Master of International Business (M.I.B.) is a non-thesis interdisciplinary graduate business program designed to enhance a student's knowledge and understanding of global business trends and problems.

All M.I.B. candidates must complete the 30-credit curriculum, which consists of 14 core credits and 16 elective credits, with a grade point average (major and overall) of 3.0 or higher. The

curriculum includes a mandatory global immersion experience and a non-thesis capstone project.

Combined Degree: The Master of International Business offers a combined bachelor's/master's degree option for students pursuing a bachelor's degree in a business discipline or minor in business administration.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/mib>.

Degrees Offered with a Major in International Business

Master of International Business

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation

- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure

- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching

- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Management

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

Management Program Information

Master of Science degree with a major in Management, non-thesis option: This M.S. program is designed to afford general business competency to students who possess little or no educational business background. The M.S. with a major in management program is only open to non-business majors. Students must complete the 32-credit curriculum, which consists of 22 core credits and 10 elective credits, with a grade point average (major and overall) of 3.0 or higher.

Combined Degree Program: The M.S. with a major in management offers a combined bachelor's/master's degree option.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/msm>.

Degrees Offered with a Major in Management

Master of Science

without a concentration

concentration in Health Care Risk Management

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management

- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions

- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading

- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems

- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing

- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Marketing Department

Chair: Joseph W. Alba

Graduate Coordinator: Lyle A. Brenner

Complete faculty listing [Follow this link](#)

The Marketing Department at the University of Florida is a recognized leader in the discipline of marketing. For over a decade, our faculty has ranked as one of the most productive and influential in the field. Our faculty is known for conducting provocative, cutting-edge research that contributes both to the scientific understanding and practice of marketing. Our Ph.D. program has produced many leading researchers in the discipline. And the David F. Miller Center for Retailing Education and Research is known as one of the foremost centers for developing the science of retailing.

The Marketing Department offers graduate work leading to the Ph.D. degree in business administration, the M.S. degree in business administration, and a concentration in the Master of Business Administration (M.B.A.) program. Requirements for the M.B.A., M.S., and Ph.D. degrees are described in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/departments/mkt>.

Other

Business Administration (Marketing - Master's)

College

[Warrington College of Business Administration](#)

Department/School

[Marketing Department](#)

Business Administration (Marketing - Master's)

The Masters of Business Administration (M.B.A) with a concentration in marketing focuses on consumer behavior, marketing management, and marketplace phenomenon. Students study the critical linkages between an organization and its environment, particularly customers and competitors.

The M.S. degree in Business Administration with a concentration in marketing is intended for students whose ultimate objective is to earn a Ph.D. in marketing at another institution. Applicants must have (a) an undergraduate degree from a nationally accredited program, (b) a minimum 3.5 undergraduate GPA, (c) a minimum 600 GMAT (1250 GRE), and (d) evidence of a strong interest in academic research in marketing. The concentration requires 30 credits of graduate-level courses, at least half of which must be in marketing.

Degrees Offered with a Major in Business Administration

Master of Arts

concentration in Marketing

Master of Science

concentration in Marketing

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Marketing - Ph.D.)

College

[Warrington College of Business Administration](#)

Department/School

[Marketing Department](#)

Business Administration (Marketing - Ph.D.)

The doctoral program is research-focused and offers the opportunity for concentrated study in consumer behavior, marketing management, and quantitative or analytical modeling of marketplace phenomena.

The Ph.D. curriculum consists of course work in three areas: research foundations, the major field, and electives. In addition, students are required to complete a first-year summer research project, a third-year review paper, and a dissertation. Other requirements are outlined in the [Graduate Degrees](#) section of this catalog.

The research foundations requirement comprises a set of research methods and data analysis courses chosen from statistics, psychology, and/or economics. The major field course work is made up of a set of four required marketing seminars that are completed during the student's first 2 years in the program. Electives are selected from both advanced marketing seminars and other related disciplines to complement the student's research program.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Marketing

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
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- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting

- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization

- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate

- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship

- GEB 6957: International Studies in Business

College of Dentistry

Interim Dean: Boyd Robinson
Associate Dean & Director: Roberta Pileggi

Complete faculty listings: [Follow this link.](#)

Advanced education has progressed over the years to be an integral component of the College of Dentistry, growing from six certificate residency programs, with an enrollment of only 36 students in 1979, to fourteen certificate programs and various fellowship programs. Enrollment is now over 140. In 1993, the college started master degree programs in endodontics, orthodontics, periodontics and prosthodontics, and continues today to grow.

Follow this link for more information about UF's College of Dentistry graduate programs: <http://admissions.dental.ufl.edu/advanced-graduate-programs/programs-application-process/>

[Departments and Programs within the College of Dentistry](#)

[College of Dentistry Courses](#)

Dental Sciences Department

[College of Dentistry](#)

Endodontics Chair and Graduate Coordinator: Roberta Pileggi
Orthodontics Chair and Graduate Coordinator: Calogero Dolce
Periodontology Chair: Ikramuddin Aukhil; Graduate Coordinator: Rodrigo Neiva
Restorative Dental Sciences Interim Chair: William Willis; Graduate Coordinator: Edgar O'Neill

Complete faculty listing: [Follow this link.](#)

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1

The application deadline for Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402

Requirements for the M.S. degree are provided in the [Graduate Degrees](#) section of this catalog

For further information, see the Dental Science program link below.

Other

Dental Sciences

College

[College of Dentistry](#)

Department/School

[Dental Sciences Department](#)

Dental Sciences Program Information

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations

include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1

The application deadline of Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402.

Those not in Dentistry are given in-department graduate credit. Registration in the courses listed below is restricted to students currently admitted to a program in the College of Dentistry.

Degrees Offered with a Major in Dental Sciences

Master of Science

without a concentration

concentration in Endodontics

concentration in Orthodontics

concentration in Periodontics

concentration in Prosthodontics

General Courses

- DEN 6937
- DEN 6674: Advanced Oral Pathology
- DEN 6675: Craniofacial Pain
- DEN 6678: Advanced Oral Medicine and Drug Interactions in Dentistry
- DEN 6679: Advanced Radiology and Interpretation
- DEN 6905: Individual Study
- DEN 6910: Supervised Research
- DEN 6934: Special Topics in Dentistry
- DEN 6935: Special Topics in Dentistry
- DEN 6936: Practice Management
- DEN 6940: Supervised Teaching
- DEN 6941: Clinical Teaching in Dentistry

- DEN 6942: Grand Rounds
- DEN 6971: Research for Master's Thesis
- DEN 6973: Project in Lieu of Thesis

Endodontics Courses

- DEN 6642: Introduction to Advanced Endodontics
- DEN 6643: Treatment Planning/Cases Presentation
- DEN 6644: Nonsurgical Endodontic Care I
- DEN 6645: Nonsurgical Endodontic Care II
- DEN 6646: Surgical Endodontics I
- DEN 6647: Surgical Endodontics II

Orthodontics Courses

- DEN 6602: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 1: Class I Treatment
- DEN 6603: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 2: Class II Treatment
- DEN 6604: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 3: Class II Treatment and Overbite Treatments
- DEN 6605: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 4: Class II Treatment and Overbite Treatments
- DEN 6606: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 5: Class III and Crossbite Treatments and Soft Tissue Considerations
- DEN 6607: Orthodontic Treatment–Appliance Management and Effect of Treatment Part 6: Impactions, Transplantations and Stability
- DEN 6608: Analysis, Diagnosis, and Treatment Planning: Part I
- DEN 6609: Analysis, Diagnosis, and Treatment Planning: Part II
- DEN 6610: Biology of Tooth Movement: Part I
- DEN 6612: Orthodontic Biomechanics: Part I
- DEN 6613: Orthodontic Biomechanics: Part II
- DEN 6614: Ortho-Perio Relationships: Part I
- DEN 6615: Ortho-Perio Relationships: Part II
- DEN 6616: Orthognathic Surgery: Part I
- DEN 6617: Orthognathic Surgery: Part II
- DEN 6618: Postnatal Growth and Development
- DEN 6670: Craniofacial Anomalies
- DEN 6671: Prenatal Growth and Development
- DEN 6672: Materials in Orthodontics

Periodontics Courses

- DEN 6652: Review of Periodontics Literature I
- DEN 6653: Review of Periodontics Literature II
- DEN 6654: Review of Periodontics Literature III
- DEN 6655: Review of Periodontics Literature IV
- DEN 6656: Introduction to Advanced Periodontology
- DEN 6657: Periodontal Histology and Histopathology
- DEN 6658: Treatment Planning in Periodontal Therapy

Prosthodontics Courses

- DEN 6622: Principles of Occlusion
- DEN 6623: Maxillofacial Prosthetics
- DEN 6624: Dental Implant Restoration
- DEN 6625: Fixed Prosthodontic Ceramics
- DEN 6626: Advanced Removable Partial Dentures
- DEN 6627: Treatment Planning Seminar

College of Design, Construction, and Planning

Dean: C. Silver

Complete faculty listings: [Follow this link.](#)

DCP is home to five independent professional disciplines: architecture, construction management, interior design, landscape architecture and urban and regional planning. The college also is home to an interdisciplinary program in historic preservation, which allows graduate students to gain expertise in research and application of historic preservation in the United States and abroad.

Accreditation and Degrees

The academic programs in the college have an accreditation process from the professional organizations of each discipline.

- Architecture – National Architectural Accrediting Board
- Construction Management – American Council for Construction Education
- Interior Design – Foundation for Interior Design Education Research
- Landscape Architecture – American Society of Landscape Architects
- Urban and Regional Planning – Planning Accreditation Board

DCP offers both undergraduate and graduate degrees and programs. Through its academic units, the college offers doctoral, master's, and bachelor's degrees, as well as distance education programs, combined degrees, joint degrees, certificate programs, and academic minors.

College Institutes, Centers and Programs

Research and service projects conducted through the research centers and institutes often entail multidisciplinary, cross-campus student input and effort. Each division of the college is involved in on-going projects that advance both scholarly study and professional practice. The college contributes to community, state, regional and national efforts to conserve and improve the quality of the natural and built environments through its research centers. The college's teaching and research programs have national and international prominence.

For more information, please see our website: <http://www.dcp.ufl.edu>

[Departments and Programs within the College of Design, Construction, and Planning](#)

[College of Design, Construction, and Planning Courses](#)

Other

Design, Construction, and Planning (Ph.D.)

College

[College of Design, Construction, and Planning](#)

Degrees Offered with a Major in Design, Construction, and Planning

Doctor of Philosophy

without a concentration

concentration in Construction Management

optional second concentration in Geographic Information Systems

concentration in Geographic Information Systems

concentration in Historic Preservation

optional second concentration in Geographic Information Systems

concentration in Interior Design

optional second concentration in Geographic Information Systems

concentration in Landscape Architecture

optional second concentration in Geographic Information Systems

concentration in Urban and Regional Planning

optional second concentration in Geographic Information Systems

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management

- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

Landscape Architecture Departmental Courses

- LAA 5331: Site Design Methodologies
- LAA 5366: Principles of Landscape Architecture
- LAA 6231: Landscape Architecture Theory
- LAA 6322: Project Management for Landscape Architects
- LAA 6342: Landscape Architecture Criticism
- LAA 6349C: Design Communications for Landscape Architects
- LAA 6382: Ecological and Environmental Policy
- LAA 6525L: Advanced Landscape Construction Design
- LAA 6536: Landscape Management

- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis

- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Historic Preservation

College

[College of Design, Construction, and Planning](#)

Degrees Offered with a Major in Historic Preservation

Master of Historic Preservation

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting

- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research

- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

School of Architecture

Director: M. Gold.

Graduate Coordinator: N. M. Clark.

Complete faculty listing [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization in this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, Box 115701.

Master of Architecture: The School of Architecture offers graduate work leading to the first professional degree, Master of Architecture. During graduate studies, each student has the opportunity to focus on one or more areas, including design, history and theory, urban design, preservation, structures, and technology. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design. The student's overall college experience, both undergraduate and graduate programs, is intended to be a complete unit of professional education leading to practice in architecture or related fields.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Florida School of Architecture offers the following NAAB-accredited degree programs:

Master of Architecture (pre-professional degree + 52 graduate credits) Master of Architecture (professional degree + 30 graduate credits) Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits)

Master of Architecture (pre-professional degree + 52 graduate credits) : For those students who have a 4-year baccalaureate degree from an accredited architectural program, 2 years in residence (52 credits) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. Course sequences in history and theory, technology, structures, and practice must also be completed.

Master of Architecture (professional degree + 30 graduate credits): For students who have a baccalaureate degree with an architecture or related major (interior design, landscape architecture) and who have completed 4 or 6 architecture or design studies courses, three years of residence (83 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. ARC 4073, ARC 4074, [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. (Undergraduate courses 3000 and 4000 level in the major do not count toward the minimum requirements for the graduate degree.) Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits): For students with a baccalaureate degree in a nonrelated academic area and have completed fewer than 4 design studies courses, 4 years of residence (112 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. ARC 4071, ARC 4072, ARC 4073, ARC 4074, [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or project. Undergraduate courses 3000 and 4000 level in the major do not count toward the 52-hour minimum requirements for the graduate degree. Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Accredited 5-year professional base: For students with a baccalaureate degree in architecture from an accredited 5-year professional degree program, a 1-year degree program is available. In these cases, a specialized curriculum is developed that complements the needs of the applicant. Minimum registration is 30 credits; however, the minimum may increase if transcript reviews show that further course work is needed to meet registration and curriculum requirements. [ARC 6356](#) is a prerequisite for the thesis or master's project.

Most states require individuals intending to become architects to hold an accredited degree. The National Architectural Accrediting Board acknowledges two types of degrees: the Bachelor of Architecture (minimum 5 five years of study); and the Master of Architecture (minimum 3 years of study after an unrelated bachelor's degree, or 2 years after a related pre-professional bachelor's degree). These professional degrees educate those who aspire to registration and licensure to practice as architects.

Student work: The College may retain student work for the purpose of record, exhibition, or instruction.

Master of Science in Architectural Studies: The M.S.A.S. is a nonprofessional degree for advanced investigations in specialized areas of architectural history, architectural pedagogy, theory, technology, design, preservation, or practice. Students with a bachelor's degree in any discipline from an accredited university are eligible to apply to this program; the proposed area of focus should be precisely defined in the application. This is a 3- to 4-semester program (32 hours minimum) that includes a thesis. (No more than 6 hours of ARC 6971 may be counted in the minimum credit hours for the degree.) Interdisciplinary study is encouraged. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design.

The School sponsors special curricula in architecture to enhance the academic program. *Preservation Institute: Caribbean, Preservation Institute: Nantucket, and Vicenza Institute of Architecture (Italy)* accepts students from the University of Florida, and also from academic circles throughout the United States and the world for year-round study. Any student in a graduate architecture program at the University of Florida may apply for one or more of these programs.

Requirements for the M.Arch., M.S.A.S., and Ph.D. degrees are described in the *General Information* section of this catalog.

The School also participates in a program granting an Interdisciplinary Concentration and Certificate in Sustainable Architecture. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Applications: All applications for fall term graduate admission (including official transcripts, GRE scores, and TOEFL scores, if necessary) must be received by the Office of the Registrar by January 15. In addition to satisfying University requirements for admission, applicants are required to submit to the Graduate Program Assistant, School of Architecture, 231 ARCH, Box 115702, the following: a portfolio of their creative work; a scholarly statement of intent and objectives; and three letters of recommendation. This material must be received by January 15 to be considered for admission in the next fall term. Students may apply after the January 15 deadline but will only be considered if spaces become available. (Updates of portfolios are accepted after January 15; however, applications will not be considered until they are complete.)

The School reserves the right to retain student work for purposes of record, exhibition, or instruction. Field trips are required of all students; students should plan to have adequate funds available. It may be necessary to assess studio fees to defray costs of base maps and other generally used materials.

Other

Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[School of Architecture](#)

Degrees Offered with a Major in Architecture

Master of Science in Architectural Studies

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Master of Architecture

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Courses

- ARC 6512: Structural Modeling
- ARC 6116: Drawing toward Architecture
- ARC 6311C: Building Information Modeling
- ARC 6383: St. Augustine Interdisciplinary Design Studio
- DCP 6710: History and Theory of Historic Preservation
- DCP 6715: Preservation Building Technology
- DCP 6971: Research for Master's Thesis
- URP 6272: Advanced Planning Information Systems

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation

- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

M.E. Rinker, Sr., School of Construction Management

Director: Robert Ries

Director of Master's Programs: Robert E. Minchin

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary doctoral program in design, construction, and planning. Areas of specialization in the program include architecture, construction management, interior design, landscape architecture, and urban and regional planning. Within the area of construction management, specialization options include sustainable construction, information systems, construction safety, affordable housing, productivity, and human resource management. These specializations prepare students to assume college-level faculty positions and industry research positions in construction management and the building sciences. For more information on the Ph.D. program, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701. For information on the specializations in the Rinker School of Construction Management, write to the Director of Graduate and Distance Education, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703.

The M.E. Rinker Sr. School offers courses leading to the degrees of Master of Science in Construction Management (thesis), Master of Construction Management (nonthesis), and Master of International Construction Management (nonthesis distance education program for experienced professionals). An individual plan of study is prepared for each student to insure that the student's goals are achieved within the broad policy guidelines of the Rinker School. Specialization may be in such areas as construction management, sustainable construction, information systems, construction safety, and construction law. Requirements for the M.B.C., M.S.B.C., M.I.C.M., and Ph.D. degrees are given in the General Information section of this catalog.

Master of Construction Management (M.C.M.) or Master of Science in Construction Management (M.S.C.M.): To be eligible for admission to the M.C.M. or M.S.C. programs, a student must hold a 4-year undergraduate degree in building construction or its equivalent in related fields. "Equivalent in related fields" should include studies in construction materials and methods, structures, and management. Students with deficiencies in these related fields may need longer residence for the master's degree, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement.

No more than 3 credits of [BCN 6971](#) may be used to satisfy the credit requirements for the M.S.C.M. degree without written permission of the Director of Master's Programs.

Master of International Construction Management (M.I.C.M.): This program prepares students to assume upper-level management responsibilities in a multinational company. To be eligible for admission to the M.I.C.M. program, a student must have

- A 4-year undergraduate degree
- At least 5 years of meaningful, supervisory-level construction management experience
- Acceptable GRE scores (verbal and quantitative)
- A grade point average of 3.0 on a 4.0 scale
- Employer sponsorship
- International students must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

No more than 3 credits of [ICM 6934](#) may be used to satisfy the credit requirements for the M.I.C.M. without written permission of the Director. All candidates are required to take ICM 6930. In addition to these 6 research-oriented graduate credit hours, the student selects one or two areas of emphasis and then takes the rest of the required 33 credit hours from the remaining courses.

and special electives. All candidates are required to pass a comprehensive oral and/or written examination at the completion of the course work and their master's research report/project.

The M.E. Rinker Sr. School reserves the right to retain student work for purposes of record, exhibition, or instruction.

Research facilities: The Shimberg Center for Housing Studies, operating within the School, researches the problems and possible solutions associated with developing and producing affordable housing. The Powell Center for Construction and the Environment conducts research on implementing sustainability in creating, operating, and constructing a built environment. The Fluor Program for Construction Safety researches and disseminates information on matters related to construction safety and health. The Center for Advanced Construction Information Modeling educates members of the AECO industry about new and emerging technologies in virtual design and construction.

Combined program: The School offers a combined bachelor's/master's degree program. Contact the Director of Master's Programs for information.

For more information, please see our website: <http://www.bcn.ufl.edu>.

Other

Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Construction Management

Master of Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Master of Science in Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction

- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Fire and Emergency Services

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Fire and Emergency Services Program Information

The Master of Fire and Emergency Services degree program focuses on Emergency Services/Disaster Management (ES/DM) and is designed for individuals who are seeking knowledge in emergency planning, hazard mitigation and preparedness, disaster response and recovery, and homeland security. The goal is to create broad experience that includes the many elements of current cases in ES/DM and emphasizes both the critical thinking and leadership skills necessary to advance in the field.

The M.F.E.S. degree provides post-professional advancement for the critical technical issues beyond the initial fire science practices and administrative studies. Major research topics include interdisciplinary studies in material sciences, suppression systems, advanced planning and geographic systems, pre- and post-disaster mitigation planning, computer applications, and technological innovations.

The M.F.E.S. is an online distance education program. All courses are conveniently delivered utilizing a web-based e-Learning system.

For more information, please see our website: <http://www.bcn.ufl.edu/academics/masters/msfesedm>.

Degrees Offered with a Major in Fire and Emergency Services

Master of Fire and Emergency Services

without a concentration

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning

- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM5905: Special Studies
- ICM6420: Commercial Management and Cost Control
- ICM6440: Construction Value Management
- ICM6680: Principles of International Sustainable Construction
- ICM6682: Construction Ecology and Metabolism
- ICM6684: High-Performance Green Building Delivery Systems
- ICM6710: Construction Human Resource Management
- ICM6750: Managing Construction Information Technology
- ICM6751: International Construction Management
- ICM6752: Construction Finance and Investment
- ICM6761: Advanced Planning, Scheduling, and Logistics
- ICM6762: Construction Risk Management
- ICM6770: Advanced Project Safety Management
- ICM6772: International Strategic Management
- ICM6905: Directed Independent Study in International Construction
- ICM6910: Supervised Research
- ICM6930: Construction Communication and Research
- ICM6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

International Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in International Construction Management

Master of International Construction Management

without a concentration

concentration in Historic Preservation

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
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- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
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- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
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- FES 6736: Homeland Security and Emergency Management
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- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
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- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation

- DCP 6715: Preservation Building Technology
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- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Sustainable Construction

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Sustainable Construction

Master of Science in Construction Management

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES

- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM5905: Special Studies
- ICM6420: Commercial Management and Cost Control
- ICM6440: Construction Value Management
- ICM6680: Principles of International Sustainable Construction
- ICM6682: Construction Ecology and Metabolism
- ICM6684: High-Performance Green Building Delivery Systems
- ICM6710: Construction Human Resource Management
- ICM6750: Managing Construction Information Technology
- ICM6751: International Construction Management
- ICM6752: Construction Finance and Investment
- ICM6761: Advanced Planning, Scheduling, and Logistics
- ICM6762: Construction Risk Management
- ICM6770: Advanced Project Safety Management
- ICM6772: International Strategic Management
- ICM6905: Directed Independent Study in International Construction
- ICM6910: Supervised Research
- ICM6930: Construction Communication and Research
- ICM6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Interior Design Department

Chair: M. Portillo.

Graduate Coordinator: N. Park

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy:

The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Interior Design:

The Master of Interior Design (M.I.D.) provides opportunities for students to direct their attention toward a variety of topics, including

- Design pedagogy and processes
- Sustainable, safe, and secure environments
- Creative performance and innovation
- Built heritage conservation.

Regardless of the study emphasis selected by the student, the M.I.D. program has a central focus with three categories of course work:

- Design studio
- Seminars in current interior design topics
- Theories and methods of research.

All M.I.D. students must complete an approved research topic with a written thesis. Requirements for the M.I.D. and Ph.D. degrees are given in the *General Information* section of this catalog.

Applications:

All applications must include acceptable GRE scores, transcripts for all previous academic work, and if the applicant's native language is not English, a satisfactory score on one of the

following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute. This information must be received in the Office of the Registrar by February 2. In addition to satisfying University requirements for admission, the applicants are required to submit to the Graduate Program Assistant, Department of Interior Design, 336 Architecture, P.O. Box 115705, University of Florida, Gainesville, FL 32611-5705, the following

- A portfolio of your design work (if applicable). The portfolio must be accompanied by a self-addressed, stamped envelope.
- A written essay on your goals and aspirations related to graduate studies
- Three letters of recommendation.
- A personal interview is not required, but many applicants choose to visit the campus and Department as a part of the application process.

Students enrolled in the Bachelor of Interior Design program at the University of Florida may apply to the M.I.D. program during their junior year (see below).

The Department reserves the right to retain student course work for the purposes of record, exhibition, or instruction. Field trips are required for all students; students should plan to have adequate funds available. Students are required to purchase a computer for course work. It may be necessary to assess studio fees to defray costs of base maps, plans, and other generally used materials.

Admission: Applications are processed through February 2 for fall term and all applicants are encouraged to apply as soon as possible. Admission decisions are made between February and the end of April. All new students begin their studies in the fall to coincide with curriculum sequencing

Graduate course requirements according to background: After assessment of previous design work, leveling courses may be required to prepare the student for the M.I.D. 36 hours of graduate course work. Therefore, each student entering the Master of Interior Design program works with the graduate coordinator to evaluate the student's unique background to determine the specific courses needed to facilitate interest and experience. Estimated credit hours and length of study time vary according to each student's individual baccalaureate degree and experience.

There are four options.

- For students enrolled in the Bachelor of Design program at the University of Florida, 12 hours of graduate-level course work in the senior year can be counted for both the undergraduate and the M.I.D. degrees. An additional 24 graduate credit hours are required. Expect at least 1 additional year to complete the M.I.D.
- For students who graduated from a Council of Interior Design Accreditation (CIDA) accredited first professional degree program within an architectural framework, the course of study is estimated to be 36 graduate credit hours. Expect 2 years to complete the M.I.D.
- For students who graduated from a design-related (architecture or interior design) baccalaureate degree program, the course of study is estimated to be a maximum of 59 graduate credit hours (includes the 36-hour M.I.D.). Expect 3 years to complete leveling courses and the master's degree.
- For students with a bachelor's degree in a field other than design, the course of study is estimated to be 86 undergraduate and graduate credit hours. Expect 3 to 4 years to complete leveling courses and the M.I.D.

Estimates of the number of credit hours and length of study time may be adjusted based on the individual student's previous preparation including experience as a practicing designer, architect, or other professional.

Program requirements: After leveling courses are completed and with approval by the graduate coordinator and supervisory committee chair, a student completes 24 hours of departmentally approved graduate work in the Department of Interior Design. In addition, with the graduate coordinator's approval, the student is required to take 3 hours of course work in graduate statistics and 9 hours of multidisciplinary graduate electives that reinforce and extend the research.

Courses from such academic units as Psychology, Anthropology, Sociology, Engineering, Education, and Business Administration provide possible electives. The College of Design, Construction and Planning offers the Certificate in Historic Preservation. If the focus of a student is the renovation and preservation of built environments, then historic preservation courses leading to a certificate would strengthen the research and design effort. Likewise, existing appropriate courses in Architecture, Landscape Architecture, Urban and Regional Planning, and Building Construction offer both collaborative study and research opportunities for M.I.D. students.

Each student must select a two-member supervisory committee to guide course selection and to guide thesis selection, study, and production.

Other

Interior Design

College

[College of Design, Construction, and Planning](#)

Department/School

[Interior Design Department](#)

Degrees Offered with a Major in Interior Design

Master of Interior Design

without a concentration

concentration in Historic Preservation

concentration in Sustainable Design

Courses

- IND 5326: Color Theory Planning and Practice

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Landscape Architecture Department

[College of Design, Construction, and Planning](#)

Chair: Gina Gurucharri
Graduate Coordinator: Kevin Thompson

Complete faculty listing by department: [Follow this link](#)

The mission of the Department of Landscape Architecture is to advance the ethical, creative, and skillful application of the art and the science of planning and designing urban, rural and natural environments. The Master of Landscape Architecture seeks excellence through professional practice and service, and through research and scholarly pursuit.

Interstate field trips are required as a part of the normal program curriculum. Students should plan to have adequate funds for field trips and for studio materials. Students are also required to own a laptop computer meeting minimum department requirements. These specifications are available through the department of Landscape Architecture's website at URL: <http://www.dcp.ufl.edu/landscape>.

The Graduate program in Landscape Architecture offers flexibility in meeting the needs of applicants with varied backgrounds. Students entering the graduate program in landscape architecture follow one of the four following tracks:

Pre MLA Program

Graduate students who do not possess an LAAB accredited professional degree in landscape architecture are invited to enroll in the Pre MLA program.

The Pre MLA Program aids the development of basic analytical, design and graphic skills. Upon successful completion of the Pre MLA Summer term, students advance into a two-semester sequence of articulation courses that provide a foundation of applied landscape design and planning theory as well as competencies in landscape construction.

MLA Advanced Graduate Studies Program

Graduate students having completed the Pre MLA program or entering the MLA program with an LAAB accredited professional baccalaureate degree in Landscape Architecture commence a two year program of advanced graduate coursework towards the completion of the MLA degree.

MLA Program + Construction

Graduate students with a non-accredited or non-LAAB accredited degree in Landscape Architecture may apply directly to the MLA program but may be required to take additional coursework to develop core competencies required for advanced graduate study.

MLA Research Degree

Graduate students with an LAAB accredited professional degree in Landscape Architecture and a significant history of achievement in professional practice may tailor a program of advanced study to meet their specific needs. Proposals for the MLA Research Degree option are reviewed by the Graduate Coordinator and an approved course of study is determined through consultation with the Graduate Committee.

The normal tenure of advanced graduate study is five semesters which includes a summer semester internship. Students complete a minimum of 52 credit hours composed of lecture courses, seminars, design and construction studios, internship and individual study (special studies, supervised research and thesis or terminal project).

This time period would be extended should a student elect to expand the course work or seek a concurrent degree in a related field.

Design studios: Graduate design studios build on required lecture and seminar courses. A core of three advanced design studios are topically-oriented focusing on issues of human, ecological and regional concern. Each studio requires students to engage a method appropriate to the studio's selected projects, to analyze the findings generated by this research and to use the findings to build a rational argument that leads to a defensible design position. Interdisciplinary and multidisciplinary collaborations are encouraged on both a formal and an informal basis. Graduate studio projects also deal with current issues related to the mission of the Department with an additional focus on research and community service.

Thesis or terminal project: The Department recognizes that students have different professional goals and personal strengths and interests. A thesis is appropriate for students interested in further research or teaching, or in pursuing advanced degrees. A project (with a significant research component) is appropriate for students interested in design or project-oriented aspects of landscape architecture, or if their specific areas of interest suggest a nontraditional approach.

Programs, centers, and institutes: The College of Design, Construction, and Planning has several research centers and institutes. The course work and summer sessions afforded by these programs offer both required and elective course work for graduate students in landscape architecture:

The Center for Landscape Conservation Planning: The Center for Landscape Conservation Planning conducts applied research on the relationship between conservation and land use while providing learning opportunities for students.

The Center for International Design and Planning: The Center for International Design and Planning conducts interdisciplinary research with a focus on emerging design and planning trends in an era of globalization with a focus on resilient development systems and adaptive design and planning strategies.

The Preservation Institute: Nantucket gives students an opportunity to receive specialized educational experience in a broad range of preservation topics using Nantucket as a resource for case-study projects.

The Preservation Institute: Caribbean gives students an opportunity to conduct and apply research regarding the conservation of the rich cultural traditions of the Greater Caribbean basin.

The GEOPLAN Center is dedicated to the development of geographic and spatial information systems. Graduate students receive instruction in geographic information systems and are involved in a multidisciplinary studio that applies the tools and systems understanding afforded by GIS.

Graduate advisement: Students are initially advised by the Graduate Coordinator. He or she has guided the student's application through the acceptance process and is familiar with the student's background and needs. A plan of study is developed that includes required and optional courses. By the end of the second semester of study, each student is required to form a supervisory committee composed of two faculty members. The primary purpose of the graduate committee is to advise the student on educational objectives and the thesis or terminal project course work.

Application Procedure

Details of application procedure are found on the Department of Landscape Architecture's website. Applicants are encouraged to familiarize themselves with the details of the application procedures and the application requirements. Applications will ONLY be considered for the track for which they have been submitted. Make certain you are applying to the correct track based on your background and credentials and the criteria detailed above.

Application Dates

Applications are to be completed and submitted prior to the deadline noted on the Department's website. Unless otherwise noted, international applications must be received by November 1st. Applications from within the US are to be received no later than February 1st. Early applications are encouraged.

Application materials to be submitted online and/or to the Office of the Registrar

Application materials include the online application form accompanied by official transcripts, Letters of Recommendation, GRE scores, and TOEFL scores (applicants with English as a second language) to Office of the Registrar: Admissions Section, Criser Hall, University of Florida, Gainesville, Florida 32611.

Application Materials to be submitted directly to the Department

In addition to the materials submitted to the registrar's office, applicants must also submit a letter of intention to the Department of Landscape Architecture (Graduate Program Assistant).

Application Portfolio

All applicants are encouraged to submit a portfolio of creative works.

Post professional degree applicants applying for either the Pre MLA Fall Start or MLA Advanced Graduate Study program are required to submit a portfolio that both exhibits creative work

experience and shows evidence of acquired technical proficiencies in the practice of landscape architecture.

All portfolio must be digital. PDF is preferred.

Application Status

Applications will be processed once all material has been received and must be complete prior to the application deadline. Applicants will be contacted by the Program Assistant if their application is incomplete. Please respond quickly if you have been contacted to increase the chances of your application being considered in the current review period. Only completed applications will be processed for review.

Once the application has been processed for review, applicants will receive written notification of their application status, generally sometime in the middle of March. Please do not contact the department with inquiries of your application status prior to the end of March.

Preparatory courses (see Undergraduate Catalog): LAA 2330, LAA 2350, LAA 2360, LAA 2370, LAA 3420, LAA 3350, LAA 3352, LAA 3421, LAA 3550, [LAA 6716](#), and ORH 3513.

Other

Landscape Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[Landscape Architecture Department](#)

Landscape Architecture Program

The Department of Landscape Architecture offers graduate programs leading to the Master of Landscape Architecture (M.L.A.) degree in Landscape Architecture. A Ph.D. degree with a concentration in Landscape Architecture is also offered through the College of Design, Construction and Planning. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Master of Landscape Architecture: The MLA is a Landscape Architecture Accreditation Board (LAAB) accredited professional Master's degree in Landscape Architecture. Graduation from an accredited program is an essential first step toward licensing in Florida and other states that regulate the practice of landscape architecture.

For more information, please see our website: <http://www.dcp.ufl.edu/landscape>.

Degrees Offered with a Major in Landscape Architecture

Master of Landscape Architecture

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Wetland Sciences

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Urban and Regional Planning Department

Director of School of Landscape Architecture and Planning: Kristin Larsen

Chair: Joseli Macedo

Graduate Coordinator: Stanley Latimer

Graduate Coordinator of Online Degree program: Ferdinand Lewis

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy: The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in Design, Construction, and Planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Arts in Urban and Regional Planning: The Department of Urban and Regional Planning offers graduate work leading to the degree of Master of Arts in Urban and Regional Planning (M.A.U.R.P.). Students are encouraged to enter the program in the fall semester. The program is usually completed in two academic years. The student entering with an undergraduate degree and no graduate study must complete 52 hours of credit for the M.A.U.R.P. degree. Students who have a master's degree in a related field may transfer up to 18 graduate semester hours toward the 52 hour requirement. Such a transfer of credit requires the approval of the Department. The Department encourages students with any undergraduate degree who are interested in the field of planning to apply for admission.

Complete descriptions of the requirements for the M.A.U.R.P. and Ph.D. degrees are provided in the *General Information* section of this catalog.

The urban and regional planning curriculum is designed to provide a set of core studies and contextual projects which prepare the graduate for the practice of planning in public or private agencies at both national and international levels. The core studies include history and theory of planning; planning methods; growth management at local, regional, and state levels; and related studies in community and regional social, natural, and economic systems. Contextual projects include, among many subject areas, urban design, transportation, regional planning, community redevelopment and preservation, housing, real estate, and economic development. The program emphasizes planning, policies, and design for the physical environment. Current specializations include growth management and transportation, urban design, housing, community and economic development, information technologies for planning, and environmental planning. Students are also encouraged to take advantage of the extensive faculty, course offerings, and other resources available in the College of Design, Construction, and Planning and throughout the University. The Department has two research centers: The Geo-facilities Planning and Information Center (GeoPlan), the Center for Building Better Communities (CBBC), and the Center for Health and the Built Environment (CHBE).

The curriculum is supported by an extensive GIS laboratory, and a visual aid library. Variation from the core studies may be approved by the Department if the student can demonstrate education and experience to the faculty that would support such an alternative. The M.A.U.R.P. degree is accredited by the Planning Accreditation Board, a joint undertaking of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning, for having achieved the highest applicable standards for graduate education in the field of planning. Graduates of the Department are prepared to practice urban and regional planning.

The Department of Urban and Regional Planning and the College of Law offer a joint degree program (see *Requirements for Master's Degrees* in the *General Information* section of this catalog). Areas of concentration with other programs in the Graduate School may be developed to meet the individual needs of students. In addition to course work the student is required to complete an internship with a public or private planning office and the student must complete a thesis.

The Department reserves the right to retain student work for purposes of record, exhibition, or instruction.

Other

Urban and Regional Planning

College

[College of Design, Construction, and Planning](#)

Department/School

[Urban and Regional Planning Department](#)

Degrees Offered with a Major in Urban and Regional Planning

Master of Arts in Urban and Regional Planning

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- URP 6276: Internet Geographic Information Systems
- URP 6277: Land Use Visioning and Analysis
- URP 6610: International Development Planning
- URP 6711: Transportation and Land Use Coordination
- URP 6743: Affordable Housing Law
- URP 6855: Urban Form in Cities throughout the Americas
- URP 6887: Advanced Defensible Space in Urban Design

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology

- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

College of Education

Dean: G. Good.

Complete faculty listings: [Follow this link.](#)

Graduate study in education, allows individuals with bachelor's degrees in agriculture, business, education, engineering, mathematics, sciences, humanities, foreign languages, preprofessional studies and other fields to prepare for rewarding professional careers in education and related fields.

The College of Education offers 19 master's or specialist programs, 12 doctoral programs, and a J.D./Ph.D. program with the College of Law through its three schools: [Human Development and Organizational Studies in Education](#); [Special Education, School Psychology and Early Childhood Studies](#); and [School of Teaching and Learning](#).

Follow these links for more information about UF's College of Education graduate programs:

<http://education.ufl.edu/graduate-studies>

<http://education.ufl.edu/programs>

[Departments and Programs within the College of Education](#)

[College of Education Courses](#)

Human Development and Organizational Studies in Education Department

Director: Linda B. Eldridge

Graduate Coordinator: Patricia Ashton

Complete faculty listing by department: [Follow this link.](#)

Programs leading to the Master of Arts in Education (M.A.E.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees are offered through this school with programs in Counseling and Counselor Education, Educational Leadership, Higher Education Administration, Marriage and Family Counseling, Mental Health Counseling, Research and Evaluation Methodology, School Counseling and Guidance, and Student Personnel in Higher Education.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

More information can be found at our website: <http://education.ufl.edu/hdose>

Other

Counseling and Counselor Education

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Counseling and Counselor Education Program

The doctoral program in Counseling and Counselor Education prepares students for careers in academia and advanced clinical and administrative positions. Our program aligns with the University of Florida mission to prepare the next generation of scholars and professional leaders. Thus, our doctoral program is a good fit for individuals who want to fulfill the roles of counselor educators – research, writing, teaching, service, securing external funding to support scholarship, assuming professional leadership positions, etc. The doctoral program is ideally suited for individuals with previously earned masters and at least two years of clinical experience. Doctoral students complete coursework, a doctoral clinical internship, participate in teaching

and supervision, and conduct research leading to the completion of a dissertation. Students average 3 to 5 years to complete the doctorate, many of whom balance work and school commitments.

Degrees Offered with a Major in Counseling and Counselor Education

Doctor of Education

without a concentration

concentration in Marriage and Family Counseling

concentration in Mental Health Counseling

concentration in School Counseling and Guidance

Doctor of Philosophy

without a concentration

concentration in Marriage and Family Counseling

concentration in Mental Health Counseling

concentration in School Counseling and Guidance

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance

- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work

- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Educational Leadership

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Educational Leadership Program Information

Programs in Educational Leadership provide opportunities for professional educators and those who would like to be professional educators to receive quality coursework, mentorship, and degrees in educational administration, policy, and leadership. The programs provided are ideal for vice principals, principals, district directors and supervisors, assistant superintendents, school business managers, teachers aspiring to acquire administrative roles within the K-12 system and educational leaders of other organizations.

Degrees Offered with a Major in Educational Leadership

Doctor of Education

without a concentration

concentration in Educational Policy

Doctor of Philosophy

without a concentration

concentration in Educational Policy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
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- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
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- EDG 7941: Field Experience in Curriculum and Instruction
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- EDG 7980: Research for Doctoral Dissertation
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- EDH 6046: Diversity Issues in Higher Education

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- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
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- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
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- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
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- MHS 6468: Multicultural issues in disaster mental health counseling
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- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
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- MHS 6905: Individual Work
- MHS 6910: Supervised Research
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- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling

- SDS 7830: Internship in Counseling and Development-600 Hours

Higher Education Administration

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Higher Education Administration Program Information

The Higher Education Administration program has been established for students aspiring to become community college and university administrators, deans, presidents, and professors. America's community colleges and universities will soon face a critical leadership gap. As the baby boom generation approaches retirement age, many provosts, deans and college presidents are getting ready to add "emeritus" to their titles. As a result, openings in top leadership positions are expected to exceed the number of appropriately-trained individuals for many years to come.

The University of Florida's College of Education is helping fill the gap. Our nationally recognized Higher Education Administration Program prepares future leaders for their roles in administrative positions in higher education. Our faculty and alumni shaped the community and state college system as we know it, and our graduates have gone on to crucial administrative positions at two- and four- year institutions. Join us in shaping the future of higher education.

Degrees Offered with a Major in Higher Education Administration

Doctor of Education

without a concentration

concentration in Educational Policy

Doctor of Philosophy

without a concentration

concentration in Educational Policy

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction

- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
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- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients

- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Marriage and Family Counseling

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Marriage and Family Counseling Program Information

The Marriage & Family Counseling/Therapy program specialization emphasizes an eco-systemic approach to understanding human problems and generating solution opportunities: Students learn to moderate solution-oriented conversations among interested parties (i.e., stakeholders) who are invited to seek "double descriptions" of mutual concerns and problems, to listen carefully to each other, to entertain and invent multiple solution possibilities, and to construct new narratives of cooperation and commitment.

Degrees Offered with a Major in Marriage and Family Counseling

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
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- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
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- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Mental Health Counseling

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Mental Health Counseling Program Information

The M.Ed./Ed.S. and M.AE./Ed.S. program in Mental Health Counseling is designed to equip students with the pre-professional competencies required for Registered Intern status and, after a minimum number of years of post-degree supervised clinical experience, (a) licensure in the State of Florida as Mental Health Counselors and (b) clinical membership in NBCC's Academy of Certified Clinical Mental Health Counselors. Additionally, some students may choose to continue their studies in a doctoral program. These students often elect the thesis option (M.A.E.) to complete their studies.

Degrees Offered with a Major in Mental Health Counseling

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research

- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation

- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Research and Evaluation Methodology

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Research and Evaluation Methodology Program Information

The mission of the Research and Evaluation Methodology program is to generate, evaluate, apply and disseminate knowledge about educational research methodology, to prepare exemplary educational research methodologists, and to collaborate with others to provide methodology for the advancement of educational research. This mission aligns with College of Education's and University of Florida's missions because it results in research strategies for knowledge discovery to solve critical educational and human problems in a diverse global community.

- Learn to evaluate educational programs, analyze educational data, develop assessment instruments, and conduct research about the e-ficacy of research methodologies.
- Work as an educational researcher, an educational data analyst, or a psychometrician (an expert in testing and assessment).
- Find jobs in testing companies; research and evaluation companies; research centers; and assessment centers at universities, school districts, and state and federal agencies.
- Complete a master's degree (M.A.E. or M.Ed.) in two years or a Ph.D. in four years with classes focusing on research methodology, statistics applied to education, program evaluation, and psychometrics.
- We admit students with some undergraduate research experience. Our students come from a variety of backgrounds, including psychology, sociology, statistics, mathematics, mathematics education, political science, marketing, economics, and engineering.

Degrees Offered with a Major in Research and Evaluation Methodology

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Research and Evaluation Methodology

- EDF 5441: Assessment in General and Exceptional Student Education
- EDF 6113: Educational Psychology: Human Development
- EDF 6211: Educational Psychology: General
- EDF 6215: Educational Psychology: Learning Theory
- EDF 6232: Principles of Learning and Instructional Practice
- EDF 6400: Quantitative Foundations of Education Research Overview
- EDF 6401: Educational Statistics
- EDF 6402: Quantitative Foundations in Educational Research: Inferential Statistics
- EDF 6403: Quantitative Foundations of Educational Research
- EDF 6434: Educational Measurement
- EDF 6436: Theory of Measurement
- EDF 6471: Survey Design and Analysis in Educational Research
- EDF 6475: Qualitative Foundations of Educational Research
- EDF 6481: Quantitative Research Methods in Education
- EDF 6905: Individual Study
- EDF 6910: Supervised Research
- EDF 6938: Special Topics
- EDF 6940: Supervised Teaching
- EDF 6941: Practicum in Educational Research
- EDF 6971: Research for Master's Thesis
- EDF 7117: Affective Development and Education
- EDF 7405: Advanced Quantitative Foundations of Educational Research
- EDF 7412: Structural Equation Models
- EDF 7435: Rating Scale Design and Analysis in Educational Research
- EDF 7439: Item Response Theory
- EDF 7474: Multilevel Models
- EDF 7479: Qualitative Data Analysis: Approaches and Techniques
- EDF 7483: Qualitative Data Collection: Approaches and Techniques
- EDF 7486: Methods of Educational Research
- EDF 7491: Evaluation of Educational Products and Systems
- EDF 7639: Research in Educational Sociology
- EDF 7931: Seminar in Educational Research
- EDF 7932: Multivariate Analysis in Educational Research
- EDF 7979: Advanced Research
- EDF 7980: Research for Doctoral Dissertation
- EDP 6052: Cognitive Psychology Applied to Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation

- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics

- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

School Counseling and Guidance

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

School Counseling and Guidance Program Information

The M.Ed./Ed.S. and M.AE./Ed.S. program in School Counseling is designed to equip students with the pre-professional competencies required for Florida Department of Education Certification in School Counseling. The 72-credit hour program provides students with the specialized knowledge and skills required for placements as school counselors in public or private elementary, middle, or secondary schools.

Students enrolled in the School Counseling program, a state-approved and NCATE (National Council for the Accreditation of Teacher Education) and CACREP (Council for the Accreditation of Counseling and Related Educational Programs) accredited school counselor preparation program, must provide passing scores for all pertinent sections of the Florida Teacher Certification Examination (FTCE) including the General Knowledge test (math, English language skills, reading comprehension, and essay), the Professional Education examination, and the Subject Area Examination in Guidance and Counseling K-12 prior to graduation from the program. Questions about this requirement or any other certification related questions may be addressed to the College of Education Office of Student Services.

Degrees Offered with a Major in School Counseling and Guidance

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development

- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures

- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Student Personnel in Higher Education

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Student Personnel in Higher Education Program Information

The University of Florida Student Personnel in Higher Education program is a master's program designed to prepare students to enter Student Affairs leadership positions in two- and four-year institutions of higher education. The program integrates academic coursework with practitioner-based experience. The SPHE master's degree consists of 36 credit hours of core classes and 10 credit hours of supervised practicum and internship experiences (total = 46 credit hours). Students enter the graduate program in the fall semester as members of a cohort group. The group provides support and builds a sense of community for the students. All students are assigned a faculty advisor at the time of admission.

The student affairs profession is increasingly diverse and is engaged in a variety of activities and programs. The emphasis in UF's master's degree program in SPHE is upon the promotion, design, and assessment of student learning in a variety of campus and community settings.

Degrees Offered with a Major in Student Personnel in Higher Education

Master of Arts in Education

Master of Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications

- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Special Education, School Psychology and Early Childhood Studies Department

Director: Jean Crockett

Complete faculty listing by department: [Follow this link.](#)

The School of Special Education, School Psychology, and Early Childhood Studies offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 3 areas of specialization: Special Education; School Psychology; and Early Childhood Studies. Programs are accredited by the Florida Department of Education and approved by the National Council for Accreditation of Teacher Education (NCATE). The School Psychology program is approved by the NCATE and the National Association of School Psychologists (NASP). The Ph.D. program in School Psychology is accredited by the American Psychological Association (APA).

Other

Early Childhood Education

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in Early Childhood Education

Master of Arts in Education

Master of Education

Early Childhood Education Courses

- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6940: Supervised Teaching
- EEC 7056: Early Childhood Policy and Advocacy
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEC 7979: Advanced Research

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6946: Practicum in Early Childhood Education
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6053: Foundations of Special Education
- EEX 6098: Students with Disabilities in Higher Education
- EEX 6233: Designing Instruction for Inclusive Classrooms
- EEX 6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX 6785: Introduction to Education-Healthcare Transition
- EEX 6786: Transdisciplinary and Transition Services in Special Education
- EEX 6788: Methods for Integrating Education-Health Care Transition
- EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX 6841: Practicum in Special Education: Mild Disabilities
- EEX 6863: Supervised Practice in Special Education
- EEX 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

School Psychology

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in School Psychology

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

School Psychology Courses

- SPS 6052: Issues and Problems in School Psychology
- SPS 6191: Psychoeducational Assessment I
- SPS 6192: Psychoeducational Assessment II
- SPS 6193: Academic Assessment & Intervention
- SPS 6195: Developmental Psychopathology
- SPS 6197: Psychoeducational Assessment III
- SPS 6410: Direct Interventions I: Applied Behavior Analysis for School Psychologists
- SPS 6707: Interventions in School Psychology II: Cognitive Behavioral Interventions
- SPS 6708: Interventions in School Psychology III: System Level Interventions for Children and Youths
- SPS 6815: Law and Ethics in Psychology
- SPS 6937: Special Topics in School Psychology
- SPS 6941: Practicum in School Psychology
- SPS 6942: School Psychology Practicum II
- SPS 6945: Advanced Practicum in School Psychology
- SPS 7205: School Psychology Consultation
- SPS 7931: Seminar in School Psychology
- SPS 7949: Internship in School Psychology
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work

- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6946: Practicum in Early Childhood Education
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6053: Foundations of Special Education
- EEX 6098: Students with Disabilities in Higher Education
- EEX 6233: Designing Instruction for Inclusive Classrooms
- EEX 6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX 6785: Introduction to Education-Healthcare Transition
- EEX 6786: Transdisciplinary and Transition Services in Special Education
- EEX 6788: Methods for Integrating Education-Health Care Transition
- EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX 6841: Practicum in Special Education: Mild Disabilities
- EEX 6863: Supervised Practice in Special Education
- EEX 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

Special Education

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in Special Education

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Special Education Courses

- EEX 5940: Supervised Student Teaching in Special Education
- EEX 6053: Foundations of Special Education

- EEX6072: Accessing Academic and Social Communities for Students with Disabilities
- EEX6125: Interventions for Language and Learning Disabilities
- EEX6219: Reading Assessment and Intervention for Students with Disabilities
- EEX6222: Evaluation in Special Education
- EEX6233: Designing Instruction for Inclusive Classrooms
- EEX6234: Assessment, Curriculum, and Instruction for Students with Severe Disabilities
- EEX6249: Advanced Strategies for Teaching Students with Disabilities
- EEX6661: Teaching and Managing Behavior for Student Learning
- EEX6750: Families and Transition for Students with Disabilities
- EEX6786: Transdisciplinary and Transition Services in Special Education
- EEX6835: Practicum in Special Education: Severe Disabilities
- EEX6841: Practicum in Special Education: Mild Disabilities
- EEX6863: Supervised Practice in Special Education
- EEX6905: Individual Work
- EEX6910: Supervised Research
- EEX6936: Special Topics
- EEX6940: Supervised Teaching
- EEX6971: Research for Master's Thesis
- EEX6973: Project in Lieu of Thesis
- EEX6296: Differentiated Instruction
- EEX7303: Inquiry in Special Education: Analysis of the Literature
- EEX7304: Introduction to Field of Inquiry in Special Education
- EEX7526: Grant Writing Seminar in Education
- EEX7787: School Improvement for All Students
- EEX7865: Internship: Special Education
- EEX7428: Teacher Education in Special Education
- EEX7934: Seminar: Trends in Special Education
- EEX7979: Advanced Research
- EEX7980: Research for Doctoral Dissertation
- EGL6051: Education of the Gifted Child
- EGL6245: Program Development for the Gifted

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EEC6205: Early Childhood Curriculum
- EEC6304: Creativity in the Early Childhood Curriculum
- EEC6525: Issues in Child Care Administration
- EEC6615: Early Childhood Education: Background and Concepts
- EEC6905: Individual Work
- EEC6910: Supervised Research
- EEC6933: Special Topics
- EEC6946: Practicum in Early Childhood Education
- EEC7617: Early Childhood Assessment & Evaluation
- EEC7666: Theory and Research in Early Childhood Studies
- EEX6053: Foundations of Special Education
- EEX6098: Students with Disabilities in Higher Education
- EEX6233: Designing Instruction for Inclusive Classrooms
- EEX6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX6785: Introduction to Education-Healthcare Transition
- EEX6786: Transdisciplinary and Transition Services in Special Education
- EEX6788: Methods for Integrating Education-Health Care Transition
- EEX6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX6841: Practicum in Special Education: Mild Disabilities
- EEX6863: Supervised Practice in Special Education
- EEX7709: Social-Emotional Learning & Play in Early Childhood
- SPS7980: Research for Doctoral Dissertation

School of Teaching and Learning

Director: E. Bondy.

Graduate Coordinator: S. G. Terzian.

Complete faculty listing by department: [Follow this link.](#)

The School of Teaching and Learning (<http://education.ufl.edu/school>) offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis or project in lieu of thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees in curriculum and instruction. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 10 areas of specialization: curriculum, teaching, and teacher education; educational technology; elementary education; mathematics education; language and literacy education (including children's literature, English education, ESOL/bilingual education, language arts, and reading education); science and environmental education; social foundations of education; social studies education; and teacher leadership for school improvement.

The nationally recognized ProTeach graduate program leads to the M.Ed. degree and state certification as a classroom teacher. Unified Elementary ProTeach admits undergraduates who complete the five-year program with a master's degree. Secondary ProTeach (English, Science, Social Studies) prepares teachers who have completed a bachelor's degree in the discipline they will teach. Prospective elementary teachers who already hold a bachelor's degree in a non-education field may want to consider the School's SITE program (Site-based Implementation of Teacher Education), which leads to the M.Ed. degree in curriculum and instruction. Students may apply to the state for alternative certification.

Beyond the Graduate School and College of Education admission requirements, students should have academic preparation and teaching experience appropriate to the program being pursued. Students having deficiencies in their preparation will be required to follow a program to remove such deficiencies. A limited amount of support is available for graduate studies through fellowships, scholarships, research assistantships, and teaching assistantships.

Other

Curriculum and Instruction (CCD)

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Curriculum and Instruction

Doctor of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education

- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling

- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education

- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Curriculum and Instruction (ISC)

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Curriculum and Instruction

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education

- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
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- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
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- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
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- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education

- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching

- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Elementary Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Elementary Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom

- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

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- RED 6346: Seminar in Reading
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- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
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- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
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- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TISI Online Portfolio Preparation

English Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in English Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
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- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
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Educational Technology

- EME 5054: Foundations of Educational Technology
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- EME 5433: Integrating Technology into Science Classroom
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- EME 6458: Distance Teaching and Learning
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- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
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- LAE 6365: Language Arts: Language and Composition
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- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
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- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry

- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
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- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
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Secondary Education

- EDM6005: The Emergent Middle School
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- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
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- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
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- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

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Mathematics Education

College

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Department/School

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- EDF 6606: Socioeconomic Foundations of Education
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- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

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- EDG 6047: Teacher Leadership for Educational Change
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- EDG 6953: TLSI Online Portfolio Preparation

Reading Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

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Master of Arts in Education

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- EDG 6225: Global Studies Methods in K-12 Education

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- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
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- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
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- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

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- EDE 6266: Teaching and Learning in Elementary Classrooms
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Dean: C. Abernathy

Complete faculty listings: [Follow this link.](#)

The College of Engineering is organized into a number of departments focusing on today's most pressing engineering questions. There is an interdisciplinary culture at the core of Gator Engineering, though, and researchers regularly collaborate with colleagues in departments and colleges beyond their own.

For more information, please see our website: <http://www.eng.ufl.edu>

[Departments and Programs within the College of Engineering](#)

[College of Engineering Courses](#)

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Other

Agricultural and Biological Engineering (Engineering)

College

- [College of Agricultural and Life Sciences](#)
- [College of Engineering](#)

Department/School

[Agricultural and Biological Engineering Department](#)

Agricultural and Biological Engineering Program

The degrees of Master of Science, Master of Engineering, and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Additional information can also be found on the graduate studies pages on the department website at www.abe.ufl.edu.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Degrees Offered with a Major in Agricultural and Biological Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Agricultural and Biological Engineering Courses

- ABE 5015: Empirical Models of Crop Growth and Yield Response
- ABE 5038: Recent Developments and Applications in Biosensors
- ABE 5152: Electro-Hydraulic Circuits and Controls

- ABE 5332: Advanced Agricultural Structures
- ABE 5442: Advanced Agricultural Process Engineering
- ABE 5643C: Biological Systems Modeling
- ABE 5646: Biological and Agricultural Systems Simulation
- ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials
- ABE 5663: Advanced Applied Microbial Biotechnology
- ABE 5707C: Agricultural Waste Management
- ABE 5815C: Food and Bioprocess Engineering Design
- ABE 6005: Applied Control for Automation and Robots
- ABE 6031: Instrumentation in Agricultural Engineering Research
- ABE 6035: Advanced Remote Sensing: Science and Sensors
- ABE 6037C: Remote Sensing in Hydrology
- ABE 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6265: Vadose Zone Modeling
- ABE 6266: Nanotechnology in Water Research
- ABE 6615: Advanced Heat and Mass Transfer in Biological Systems
- ABE 6644: Agricultural Decision Systems
- ABE 6816: Food and Bioprocess Sterilization
- ABE 6905: Individual Work in Agricultural and Biological Engineering
- ABE 6910: Supervised Research
- ABE 6931: Seminar
- ABE 6933: Special Topics in Agricultural and Biological Engineering
- ABE 6940: Supervised Teaching
- ABE 6971: Research for Master's Thesis
- ABE 6972: Research for Engineer's Thesis
- ABE 6974: Nonthesis Project
- ABE 6986: Applied Mathematics in Agricultural and Biological Engineering
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- AOM5334C: Agricultural Chemical Application Technology
- AOM5431: GIS and Remote Sensing in Agriculture and Natural Resources
- AOM5435: Advanced Precision Agriculture
- AOM6905: Individual Work in Agricultural Operations Management
- AOM6932: Special Topics in Agricultural Operations Management
- CWR 6536: Stochastic Subsurface Hydrology
- PKG 5003: Advanced Distribution and Transport Packaging
- PKG 5006: Advanced Packaging Principles
- PKG 5105: Advanced Consumer Products Packaging
- PKG 5206C: Advanced Package Decoration
- PKG 5256C: Advanced Analytical Packaging Methods
- PKG 6100: Advanced Computer Tools for Packaging
- PKG 6905: Individual Work in Packaging
- PKG 6932: Special Topics in Packaging Sciences

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Biomedical Engineering Department

Chair: C. Schmidt

Graduate Coordinator: D. Hintenlang

Complete faculty listing by department: [Follow this link.](#)

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine. The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research. The BME Department currently focuses in: neural engineering, biomaterials, tissue engineering, biomechanics, nanomedicine, biomedical imaging and medical physics. A concentration in Medical Physics is available at both the M.S. and Ph.D. level and prepares students for clinical or research careers in medical imaging or radiation therapy. The Medical Physics concentration is fully accredited by CAMPEP. Additional information on admissions requirements, faculty, and research projects is available at: <http://www.bme.ufl.edu>.

BME graduate students are admitted directly through the BME Department. The BME Graduate Academic Committee reviews and makes all decisions regarding admission. Each student's research adviser must hold a Graduate Faculty appointment in the BME Department. Supervisory committees for BME students normally include at least one member from the College of Engineering and one from the College of Medicine to emphasize the need for a clinical focus in the research.

Other

Biomedical Engineering

College

[College of Engineering](#)

Department/School

[Biomedical Engineering Department](#)

Biomedical Engineering Program Information

The master's degree (thesis or nonthesis) requires at least 30 semester hours. The Ph.D. degree requires at least 90 semester credit hours beyond the bachelor's degree. No more than 30 hours of a master's degree from another institution will be transferred to the Ph.D. degree. If a student holds a master's degree in a discipline different from the doctoral program, the master's work will not be counted toward the doctoral degree unless the BME Department successfully petitions the Dean of the Graduate School. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Complete BME program details and courses available are listed in the Biomedical Engineering Graduate Guidelines, on the [BME web site](#) (which also offers information on available areas of study). Graduate-level courses in either the College of Engineering or the College of Medicine may be applied toward the BME degree programs with the approval of the supervisory committee chair and the graduate coordinator.

Combined program: Biomedical Engineering also offers a combined bachelor's/master's degree program in collaboration with the other departments in the College of Engineering. This program allows qualified students to earn both a bachelor's degree and a master's degree within 5 years for a net savings of 1 year. Contact the BME academic services office for more information or see <http://www.bme.ufl.edu/academics/combined>.

Degrees Offered with a Major in Biomedical Engineering

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Medical Physics

Master of Engineering

Master of Science

without a concentration

concentration in Medical Physics

Courses

- BME 5052L: Biomedical Engineering Laboratory
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BME 5407: Molecular Biomedical Engineering
- BME 5500: Biomedical Instrumentation
- BME 5703: Statistical Methods for Biomedical Engineering
- BME 5704: Advanced Computational Methods for Biomedical Engineering
- BME 5937: Special Topics
- BME 6010: Clinical Preceptorship
- BME 6324: Stem Cell Engineering
- BME 6330: Cell and Tissue Engineering
- BME 6360: Neural Engineering
- BME 6502: Introduction to Medical Imaging
- BME 6505: Advanced Diagnostic Radiological Physics
- BME 6522: Biomedical Multivariate Signal Processing
- BME 6533: Radiologic Anatomy
- BME 6534: Advanced Therapeutic Radiological Physics
- BME 6535: Radiological Physics, Measurements and Dosimetry
- BME 6590: Medical Physics
- BME 6591: Therapeutic Radiological Physics I
- BME 6592: Therapeutic Radiological Physics II
- BME 6593: Therapeutic Radiological Physics III
- BME 6705: Mathematical Modeling of Biological and Physiological Systems
- BME 6905: Individual Work in Biomedical Engineering
- BME 6907: BME Project
- BME 6910: Supervised Research
- BME 6936: Biomedical Engineering Seminar
- BME 6938: Special Topics in Biomedical Engineering
- BME 6940: Supervised Teaching
- BME 6971: Research for Master's Thesis
- BME 7979: Advanced Research
- BME 7980: Research for Doctoral Dissertation
- EEE 6504: Adaptive Signal Processing
- EEE 6512: Image Processing and Computer Vision
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology
- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure

College of Engineering and College of Medicine Courses

- [Click here for information about available College of Engineering courses.](#)

Chemical Engineering Department

Chair: R. Dickinson.

Graduate Coordinator: A. Chauhan.

Complete faculty listing by department: [Follow this link.](#)

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering

Other

Chemical Engineering

College

[College of Engineering](#)

Department/School

[Chemical Engineering Department](#)

Degrees Offered with a Major in Chemical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- BME 6221: Biomolecular Cell Mechanics
- BME 6322: Dynamics of Cellular Processes
- ECH 5708: Disinfection, Sterilization, and Preservation
- ECH 5938: Topics in Colloid Science
- ECH 6126: Thermodynamics of Reaction and Phase Equilibria
 - ECH 6207
- ECH 6270: Continuum Basis of Chemical Engineering
- ECH 6272: Molecular Basis of Chemical Engineering
- ECH 6285: Transport Phenomena
- ECH 6326: Computer Control of Processes
- ECH 6506: Chemical Engineering Kinetics
- ECH 6526: Reactor Design and Optimization
- BME 6644: Pharmacokinetics
- ECH 6709: Electrochemical Engineering Fundamentals and Design
- ECH 6726: Interfacial Phenomena I
- ECH 6727: Interfacial Phenomena II
- ECH 6843: Experimental Basis of Chemical Engineering
- ECH 6847: Mathematical Basis of Chemical Engineering
- ECH 6851: Impedance Spectroscopy
- ECH 6905: Individual Work
- ECH 6910: Supervised Research
- ECH 6926: Graduate Seminar
- ECH 6937: Topics in Chemical Engineering I
- ECH 6939: Topics in Chemical Engineering III
- ECH 6940: Supervised Teaching
- ECH 6971: Research for Master's Thesis
 - ECH 6XXX
- ECH 7938: Advanced Special Chemical Engineering Topics for Doctoral Candidates
- ECH 7979: Advanced Research
- ECH 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers

- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Civil and Coastal Engineering Department

Chair: K. Hatfield

Graduate Coordinator: A. Drescher

Complete faculty listing by department: [Follow this link.](#)

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in [CGN 6974](#) for civil engineering majors, or [EOC 6905](#) for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Other

Civil Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Civil Engineering Program

The civil engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy. The master's degree in civil engineering is also offered through the Electronic Delivery of Graduate Engineering (EDGE) program, which is a distance learning program delivered either via streaming video or DVD directly to the students. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Civil Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CCE 5035: Construction Planning and Scheduling
- CCE 5405: Construction Equipment and Procedures
- CCE 6037: Civil Engineering Operations I
- CCE 6038: Innovative Construction Techniques
- CCE 6505: Computer Applications in Construction Engineering
- CCE 6507: Computer Applications in Construction Engineering II
- CCE 6516: Topics in Airborne Laser Mapping Technology
- CEG 5105: Geotechnical Engineering

- CEG 5114: Advanced Geotechnical Aspects of Landfill Design
- CEG 5115: Foundation Design
- CEG 5205C: Insitu Measurement of Soil Properties
- CEG 5206: Geosensing I
- CEG 5805: Ground Modification Design
- CEG 6015: Advanced Soil Mechanics
- CEG 6116: Advanced Shallow Foundation Design
- CEG 6117: Advanced Deep Foundation Design
- CEG 6201: Experimental Determination of Soil Properties
- CEG 6207: Geosensing II
- CEG 6405: Seepage in Soils
- CEG 6505: Numerical Methods of Geomechanics
- CEG 6515: Earth Retaining Systems and Slope Stability
- CES 5010: Probabilistic and Stochastic Methods in Civil Engineering
- CES 5116: Finite Elements in Civil Engineering
- CES 5325: Design of Highway Bridges
- CES 5606: Topics in Steel Design
- CES 5607: Behavior of Steel Structures
- CES 5715: Prestressed Concrete
- CES 5726: Design of Concrete Systems
- CES 5801: Design and Construction in Timber
- CES 5835: Design of Reinforced Masonry Structures
- CES 6106: Advanced Structural Analysis
- CES 6108: Structural Dynamics
- CES 6165: Computer Methods in Structural Engineering
- CES 6551: Design of Folded Plates and Shells
- CES 6588: Protective Structures
- CES 6590: Impact Engineering
- CES 6591: Applied Protective Structures
- CES 6592: Retrofit Protective Structures
- CES 6593: Advanced Protective Structures
- CES 6706: Advanced Reinforced Concrete
- CES 6855: Condition Assessment of Structures
- CGN 5606: Public Works Management
- CGN 5715: Experimentation and Instrumentation in Civil Engineering Materials Research
- CGN 6155: Civil Engineering Practice I
- CGN 6156: Construction Engineering II
- CGN 6505: Properties, Design and Control of Concrete
- CGN 6506: Bituminous Materials
- CGN 6525: Sustainable Materials
- CGN 6905: Special Problems in Civil Engineering
- CGN 6910: Supervised Research
- CGN 6936: Civil Engineering Graduate Seminar
- CGN 6940: Supervised Teaching
- CGN 6971: Research for Master's Thesis
- CGN 6972: Research for Engineer's Thesis
- CGN 6974: Master of Engineering or Engineer Degree Report
- CGN 7979: Advanced Research
- CGN 7980: Research for Doctoral Dissertation
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6236: Sediment Transport I
- CWR 6255: Diffusive and Dispersive Transport
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- TTE 5305: Advanced Transportation Systems Analysis
- TTE 5006: Advanced Urban Transportation Planning
- TTE 5256: Traffic Engineering
- TTE 5805: Geometric Design of Transportation Facilities
- TTE 5835: Pavement Design
- TTE 5837: Pavement Management Systems
- TTE 6205: Freeway Operations and Simulation
- TTE 6259: Urban Streets Simulation and Control
- TTE 6267: Traffic Flow Theory
- TTE 6306: Computational Methods in Transportation Engineering
- TTE 6315: Highway Safety Analysis
- TTE 6505: Discrete Choice Analysis
- TTE 6606: Urban Transportation Models

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM5816: Intermediate Fluid Dynamics
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6441: Water Resources Planning and Management
- ENV 6508: Wetland Hydrology
- ENV 6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Coastal and Oceanographic Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Coastal and Oceanographic Engineering Program

The coastal and oceanographic engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy degree. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Coastal and Oceanographic Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Coastal and Oceanographic Engineering Courses

- EGM5816: Intermediate Fluid Dynamics
- EOC 5860: Port and Harbor Engineering
- EOC 6196: Littoral Processes
- EOC 6430: Coastal Structures
- EOC 6850: Numerical Simulation Techniques in Coastal and Ocean Engineering
- EOC 6905: Individual Study in Coastal and Oceanographic Engineering
- EOC 6932: Selected Field and Laboratory Problems
- EOC 6934: Advanced Topics in Coastal and Oceanographic Engineering
- EOC 6939: Graduate Seminar
- EOC 6971: Research for Master's Thesis
- EOC 6972: Research for Engineer's Thesis
- EOC 7979: Advanced Research
- EOC 7980: Research for Doctoral Dissertation
- OCP 5293: Coastal Processes
- OCP 6050: Physical Oceanography
- OCP 6165: Ocean Waves I: Linear Theory
- OCP 6165L: Ocean Waves Laboratory
- OCP 6167: Ocean Waves II: Nonlinear Theory
- OCP 6168: Data Analysis Techniques for Coastal and Ocean Engineers
- OCP 6169: Random Sea Analysis
- OCP 6295: Estuarine and Shelf Hydrodynamics I
- OCP 6297: Coastal and Estuarine Sediment Transport
- OCP 6298: Coastal Sediment Transport Processes

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM5816: Intermediate Fluid Dynamics
- ENV5518: Field Methods in Environmental Hydrology
- ENV5565: Hydraulic Systems Design
- ENV6050: Advanced Pollutant Transport
- ENV6052: Immiscible Fluids in Porous Media
- ENV6441: Water Resources Planning and Management
- ENV6508: Wetland Hydrology
- ENV6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation

- EGN 6039: Engineering Leadership

Computer and Information Science and Engineering Department

[College of Engineering](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Other

Computer Engineering

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Computer Engineering Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science and the Doctor of Philosophy degrees in Computer Engineering through the College of Engineering. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in Algorithms, Computer Vision, Databases, Graphics and Modeling, Machine Learning, Networks, and Systems, with active labs in Bioinformatics; Computational Science and Intelligence; Vision, Graphics and Medical Imaging; Database Systems Research and Development; Data Science Research; Mobile and Pervasive Computing; Human-Centered Computing; and Cybersecurity.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees Offered with a Major in Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

without a concentration

concentration in Digital Arts and Sciences

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis

- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Digital Arts and Sciences (Engineering)

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Digital Arts and Sciences (Engineering) Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science degree in Digital Arts and Sciences through the College of Engineering. Minimum requirements for this degree are given in the [Graduate Degrees](#) section of this catalog.

This specialized program integrates engineering and design and was created for students with an interest in video games, human-computer interaction, 3D modeling and animation, virtual reality, and computer graphics. The curriculum includes core computer science with a special emphasis on human-centered computing and provides students the flexibility to focus on both computer science and design, and to create software that is computationally complex, user friendly and aesthetically pleasing.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees

Master of Science

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Electrical and Computer Engineering Department

Chair: J. Harris.

Graduate Coordinators: G. Bosman, J. McNair

Complete faculty listing [Follow this link](#).

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For more information about our program, please visit the link below.

Other

Electrical and Computer Engineering

College

[College of Engineering](#)

Department/School

[Electrical and Computer Engineering Department](#)

Electrical and Computer Engineering Program Information

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

The department offers graduate study and research in computer engineering, devices, electromagnetics and energy systems, electronics, and signals and systems.

Graduate students in the Department of Electrical and Computer Engineering have bachelor's degrees from many areas: electrical engineering, other engineering disciplines, chemistry, mathematics, physics, and other technical fields. The Department of Electrical and Computer Engineering offers both thesis and nonthesis options for the master's degrees.

In the *thesis option* a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of [EEL 6971](#) (Research for Master's Thesis). While the Graduate School sets the minimum requirements, the supervisory committee determines the appropriate number of thesis hours a student shall be required to take for the thesis. Other course requirements include a minimum of 18 hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis). No more than 6 hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)) may be counted toward the degree.

In the nonthesis option a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)). The course requirements include a minimum of 21 semester credit hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis).

The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and master's degree with a saving of one semester. Qualified students may begin their master's programs while seniors, counting up to 12 hours of specified electrical and computer engineering graduate courses for both bachelor's and master's degree requirements. Bachelor's/master's program admission requirements are (1) satisfaction of Graduate School admission requirements for the master's degree, (2) an upper-division (undergraduate) GPA of at least 3.3, and (3) completion of at least 7 EEL core courses and 2 EEL laboratories. Students with a GPA between 3.3 and 3.59 can double count up to 6 hours, while students with a GPA of 3.6 or higher can double count up to 12 hours.

All prospective doctoral students must take the written part of the Ph.D. qualifying examination within the first year of enrollment. Other requirements for the doctoral degree, as well as requirements for master's and engineer degrees, are given in the Electrical and Computer Engineering Department's Graduate Guidelines (see <http://www.ece.ufl.edu/content/graduate-academics>) and in the front section of this catalog

The following course listing indicates the major areas of faculty interest. Special topics courses [EEL 5934](#) and [EEL 6935](#) cover a wide variety of subjects for which there are no present courses.

Degrees Offered with a Major in Electrical and Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- CNT 6805: Network Science and Applications
- EEE 5317C: Introduction to Power Electronics
- EEE 5320: Bipolar Analog IC Design
- EEE 5322: VLSI Circuits and Technology
- EEE 5364: Fundamentals of Data Converters
- EEE 5400: Future of Microelectronics Technology
- EEE 5405: Microelectronic Fabrication Technologies
- EEE 5426: Introduction to Nanodevices

- EEE 6287: Brain Machine Interface Engineering
- EEE 6321: MOS Analog IC Design
- EEE 6323: Advanced VLSI Design
- EEE 6325: Computer Simulation of Integrated Circuits and Devices
- EEE 6328C: Microwave IC Design
- EEE 6374: Radio Frequency (RF) Integrated Circuits and Technologies
- EEE 6382: Semiconductor Physical Electronics
- EEE 6390: VLSI Device Design
- EEE 6397: Semiconductor Device Theory I
- EEE 6402: Nonclassical Si-Based Nanoscale CMOS Devices
- EEE 6428: Computational Nanoelectronics
- EEE 6431: Carbon Nanotubes
- EEE 6460: Advanced Microsystem Technology
- EEE 6465: Design of MEMS Transducers
- EEL 5182: State Variable Methods in Linear Systems
- EEL 5225: Principles of Micro-Electro-Mechanical Transducers
- EEL 5400: Airborne Sensors and Instrumentation
- EEL 5401: Airborne Laser Scanning: Data Processing and Analysis
- EEL 5441: Fundamentals of Photonics
- EEL 5462: Advanced Antenna Systems
- EEL 5490: Lightning
- EEE 5502: Foundations of Digital Signal Processing
- EEE 5544: Noise in Linear Systems
- EEE 5556: Electronic Countermeasures
- EEL 5666C: Intelligent Machines Design Laboratory
- EEL 5718: Computer Communications
- EEL 5721: Reconfigurable Computing
- EEL 5737: Principles of Computer System Design
- EEL 5764: Computer Architecture
- EEL 5840: Elements of Machine Intelligence
- EEL 5905: Individual Work
- EEL 5934: Special Topics in Electrical Engineering
- EEL 6065: Electrical & Computer Engineering Technical Writing
- EEL 6264: Advanced Electric Energy Systems I
- EEL 6265: Advanced Electric Energy Systems II
- EEL 6443: Integrated and Fiber Optics
- EEL 6486: Electromagnetic Field Theory and Applications I
- EEL 6487: Electromagnetic Field Theory and Applications II
- EEE 6504: Adaptive Signal Processing
- EEL 6507: Queuing Theory and Data Communications
- EEL 6509: Wireless Communication
- EEE 6503: Digital Filtering
- EEL 6532: Information Theory
- EEL 6533: Statistical Decision Theory
- EEL 6535: Digital Communications
- EEL 6537: Spectral Estimation
- EEL 6550: Error Correction Coding
- EEE 6512: Image Processing and Computer Vision
- EEL 6528: Digital Communications with Software-defined Radios
- EEL 6555: Signal Processing for Active Sensing
- EEE 6586: Automatic Speech Processing
- EEL 6588: Wireless Ad Hoc Networks
- EEL 6591: Wireless Networks
- EEL 6614: Modern Control Theory
- EEL 6617: Linear Multivariable Control
- EEL 6619: Robust Control Systems
- EEL 6686: Embedded Systems Seminar
- EEL 6706: Fault-Tolerant Computer Architecture
- EEL 6763: Parallel Computer Architecture
- EEL 6769: Hardware-Software Interactions: Nonnumeric Processing
- EEL 6814: Neural Networks for Signal Processing
- EEL 6825: Pattern Recognition and Intelligent Systems
- EEL 6841: Machine Intelligence and Synthesis
- EEL 6871: Autonomic Computing
- EEL 6892: Virtual Computers
- EEL 6905: Individual Work
- EEL 6910: Supervised Research
- EEL 6933: Electrical and Computer Engineering Graduate Seminar
- EEL 6935: Special Topics in Electrical Engineering
- EEL 6940: Supervised Teaching
- EEL 6971: Research for Master's Thesis
- EEL 6972: Research for Engineer's Thesis
- EEL 7979: Advanced Research
- EEL 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation

- EGN 6039: Engineering Leadership

Environmental Engineering Sciences Department

Director: K. Hatfield

Graduate Coordinator: P. Chadik

Complete faculty listing: [Follow this link.](#)

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering Systems Ecology and Ecological Engineering and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas. Please visit the link below for more information about our program in Environmental Engineering Sciences.

Other

Environmental Engineering Sciences

College

[College of Engineering](#)

Department/School

[Environmental Engineering Sciences Department](#)

Environmental Engineering Sciences Program Information

Graduate study is offered leading to the degrees Master of Engineering, Master of Science, and Doctor of Philosophy in the field of environmental engineering sciences. Our graduate research and education areas are

Air Resources

- Monitoring of air pollutants: indoor, ambient, industrial, and occupational
- Monitoring methodology and instrumentation development
- Formation and fate of air pollutants
- Air quality modeling
- Air pollution control: system, process and materials
- Sustainability of air quality
- Health effects and environmental impact of air pollutant

Biogeochemical Systems

- Green Engineering
- Microbiology of Natural and Engineered Systems
- Environmental Fate and Transport of Pollutants in Soils and Aquatic Systems
- Biological and Chemical Remediation of Contaminated Systems
- Environmental Toxicology and Nanotoxicology
- Effects of Climate and Land Use Changes on Biogeochemical Cycles
- Aqueous Geochemistry and Water Treatment

Environmental Nanotechnology

- Manufacturing and tailoring of nanomaterials and nanodevices for application in environmental and human health research
- Environmental fate and transport of nanomaterials
- Environmental implications of nanomaterials

Solid and Hazardous Waste Management

- Bioreactor Landfills
- Combustion and Thermal Treatment Residuals
- Contaminated Soil Characterization and Treatment
- Construction and Demolition Debris
- Electronic Waste
- Hazardous Waste
- Landfill Design and Operations
- Landfill Gas and Leachate
- Recycling and Beneficial Use of Wastes
- Treated Wood
- Waste Characterization and Leaching
- Solid Waste Management in Developing Countries

Stormwater, Water Supply and Wastewater

- Fundamental characterization of aqueous and particulate-phase contaminants including emerging contaminants: representative ambient monitoring, methodology and load quantification.
- Sourcing and generation of aqueous and particulate phase contaminants, physics and chemistry of contaminant transport and fate.
- Water contaminant control: systems, unit operation and processes, and materials development, in particular innovative mass transfer materials and low impact development materials.

- Water reuse as part of the urban water cycle; volumetric and contaminant load impacts
- Unit operation and process modeling: scalable physical models and computational fluid dynamics (CFD).
- Integrated physical, chemical, biological and thermal treatment phenomena for water cycle components.
- Coupling fundamental monitoring and material balance testing with urban water modeling
- Fundamental and applied studies of physical-chemical water treatment processes, such as adsorption, coagulation, ion exchange, and oxidation, for a wide range of water qualities including surface water, groundwater, membrane concentrate, landfill leachate, and human urine.
- Innovative applications of ion exchange for water treatment.
- Fundamental studies in aquatic chemistry with a focus on the role of natural organic matter.
- Fundamental and applied studies of adsorption and photocatalysis, including surface optimization
- Bottom up integrated urban water system simulation and optimization

Sustainability Science & Engineering

- Rational design of nanomaterial through acute and full-life-cycle toxicity assessment
- Life cycle assessment calculations and comparisons of alternative energy and materials options
- Industrial ecology
- Corporate water resources sustainability
- Campus green building codes
- Green laboratory techniques
- Operation of buildings to meet green energy requirements

Systems Ecology and Ecological Engineering

- Ecological Engineering
- Energy Analysis
- Wetlands ecosystem research
- Ecological Modeling
- Estuarine Systems

Water Resources

- Contaminant transport and fate
- Decision support systems
- Ecohydrology and hydrologic restoration
- Hydrology
- Stormwater control
- Water resources planning and management
- Water conservation
- Urban water infrastructure

Graduate students can also combine one or more of the above areas with specialties in other departments at the University of Florida.

The department participates in the hydrologic sciences interdisciplinary concentration that is offered through 9 departments in 3 colleges. This concentration is described under Interdisciplinary Graduate Studies.

Direct admission into the Master of Science and Doctor of Philosophy programs requires a bachelor's degree in engineering or in a basic science such as chemistry, geology, physics, biology, or mathematics. Persons with a degree in a nontechnical field may also be admitted into this program after completing appropriate technical courses. Direct admission into the Master of Engineering program requires a bachelor's degree in engineering.

Requirements for a master's degree normally take 12 to 24 months to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, and may be completed in 3 years, but often takes longer, depending on prior academic experience.

Concurrent program: The department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree, with a savings of 12 credits.

Joint program: The Environmental Engineering Sciences Department, in partnership with the Levin College of Law, offers a joint program leading to the M.S. or M.E. degree in environmental engineering sciences and the Juris Doctor degree. Twelve credits of appropriate course work are counted toward both degrees.

Degrees Offered with a Major in Environmental Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CEG 5206: Geosensing I
- CWR 6115: Surface Hydrology
- CWR 6116: Advanced Surface Hydrology
- CWR 6252: Environmental Biochemistry of Trace Metals
- CWR 6536: Stochastic Subsurface Hydrology
- CWR 6537: Contaminant Subsurface Hydrology
- EES 5105: Advanced Wastewater Microbiology
- EES 5107: Ecological and Biological Systems
- EES 5207: Environmental Chemistry
- EES 5245: Water Quality Analysis
- EES 5305C: Ecological and General Systems
- EES 5306: Energy Analysis

- EES 5307: Ecological Engineering
- EES 5315: Ecology and the Environment
- EES 5415: Environmental Health
- EES 6007: Advanced Energy and Environment
- EES 6009: Ecological Economics
- EES 6026C: Environmental Systems Dynamics
- EES 6028: Spatial Modeling Using Geographic Information Systems
- EES 6051: Advanced Environmental Planning and Design
- EES 6135: Aquatic Microbiology
- EES 6136: Aquatic Autotrophs
- EES 6137: Aquatic Heterotrophs
- EES 6140: Biology of Exotic Species
- EES 6371: Environmental Meteorology and Oceanography
- EES 6208: Principles of Water Chemistry I
- EES 6209: Principles of Water Chemistry II
- EES 6225: Atmospheric Chemistry
- EES 6246: Advanced Water Analysis
- EES 6301: Comparative Approaches in Systems Ecology
- EES 6308C: Wetland Ecology
- EES 6309: Wetland Treatment Systems
- EES 6318: Principles of Industrial Ecology
- EES 6335: Springs Ecosystems
- EES 6356: Estuarine Systems
- EES 6405: Environmental Toxicology
- ENV 6439: Activated Carbon: Environmental Design and Application
- ENV 5072: Pollution Control and Prevention
- ENV 5075: Environmental Policy
- ENV 5105: Foundations of Air Pollution
- ENV 5305: Advanced Solid Waste Treatment Design
- ENV 5306: Municipal Refuse Disposal
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5520: Fluid Flow in Environmental Systems
- ENV 5555: Wastewater Treatment
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6116: Air Pollution Sampling and Analysis
- ENV 6126: Air Pollution Control Design
- ENV 6130: Aerosol Mechanics
- ENV 6146: Atmospheric Dispersion Modeling
- ENV 6215: Health Physics
- ENV 6216: Radioactive Wastes
- ENV 6301: Advanced Solid Waste Containment Design
- ENV 6435: Advanced Water Treatment Process Design
- ENV 6435C: Advanced Water Treatment Process Design
- ENV 6435L: Water Treatment Process Design Laboratory
- ENV 6437: Advanced Wastewater System Design
- ENV 6438: Advanced Potable Water Systems Design
- ENV 6441: Water Resources Planning and Management
- ENV 6416: Advanced Stormwater Control Systems
- ENV 6508: Wetland Hydrology
- ENV 6510: Groundwater Restoration
- ENV 6511: Biological Wastewater Treatment
- ENV 6556: Advanced Waste Treatment Operations
- ENV 6617: Principles of Green Engineering Design and Sustainability
- ENV 6905: Individual Work
- ENV 6910: Supervised Research
- ENV 6916: Nonthesis Project
- ENV 6932: Special Problems in Environmental Engineering
- ENV 6935: Graduate Environmental Engineering Seminar
- ENV 6971: Research for Master's Thesis
- ENV 7979: Advanced Research
- ENV 7980: Research for Doctoral Dissertation

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM 5816: Intermediate Fluid Dynamics
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6441: Water Resources Planning and Management
- ENV 6508: Wetland Hydrology
- ENV 6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Industrial and Systems Engineering Department

Chair: J. Geunes.

Graduate Coordinator: J. C. Smith and P. Momcilovic.

Complete faculty listing by department: [Follow this link.](#)

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Engineer degree and the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., Engineer, and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

Other

Industrial and Systems Engineering

College

[College of Engineering](#)

Department/School

[Industrial and Systems Engineering Department](#)

Degrees Offered with a Major in Industrial and Systems Engineering

Doctor of Philosophy

without a concentration

concentration in Quantitative Finance

Engineer

Master of Engineering

Master of Science

Industrial and Systems Engineering Courses

- EIN 6227: Advanced Quality Management and Engineering for Business Processes
- EIN 6336: Advanced Production and Inventory Control
- EIN 6357: Advanced Engineering Economy
- EIN 6367: Facilities Layout and Location
- EIN 6392: Manufacturing Management
- EIN 6905: Special Problems
- EIN 6910: Supervised Research
- EIN 6918: Graduate Seminar
- EIN 6940: Supervised Teaching
- EIN 6971: Research for Master's Thesis
- EIN 6972: Research for Engineer's Thesis
- EIN 7933: Special Problems
- EIN 7979: Advanced Research
- EIN 7980: Research for Doctoral Dissertation
- ESI 5236: Reliability Engineering
- ESI 6162C: Advanced Industrial Applications of Microprocessors
- ESI 6314: Deterministic Methods in Operations Research
- ESI 6321: Applied Probability Methods in Engineering
- ESI 6323: Models for Supply Chain Management
- ESI 6341: Intro to Stochastic Optimization
- ESI 6355: Decision Support Systems for Industrial and Systems Engineers
- ESI 6417: Linear Programming and Network Optimization
- ESI 6418: Linear Programming Extensions and Applications
- ESI 6420: Fundamentals of Mathematical Programming
- ESI 6429: Introduction to Nonlinear Optimization
- ESI 6448: Discrete Optimization Theory
- ESI 6449: Integer Programming
- ESI 6470: Principles of Manufacturing Systems Engineering
- ESI 6492: Global Optimization
- ESI 6529: Digital Simulation Techniques
- ESI 6533: Advanced Simulation Design and Analysis
- ESI 6546: Stochastic Modeling and Analysis
- ESI 6552: Systems Architecture
- ESI 6553: Systems Design
- ESI 6555: Systems Management
- ESI 6912: Advanced Topics in ISE

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Materials Science and Engineering Department

Chair: S. Phillpot

MSE Graduate Coordinator: J. J. Mecholsky, Jr.

NE Graduate Coordinator: E. Dugan

Complete faculty listing by department: [Follow this link.](#)

The Department of Materials Science and Engineering offers the Master of Science and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the

MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

The faculties of the Department of Materials Science and Engineering (MSE) of the University of Florida (UF) and the University of Roma Tor Vergata (URTV) have approved a cooperative degree program in Materials Science and Engineering culminating in a Doctor of Philosophy degree, awarded by both universities. Contact the Department for details.

Other

Materials Science and Engineering

College

[College of Engineering](#)

Department/School

[Materials Science and Engineering Department](#)

Degrees Offered with a Major in Materials Science and Engineering

Doctor of Philosophy

without a concentration

in concentration in Clinical and Translational Science

Master of Engineering

Master of Science

Courses

- EMA 5008: Particle Science and Technology: Theory and Practice
- EMA 5095: Critical Analysis of Research in Materials Science & Engineering
- EMA 5108: Vacuum Science and Technology
- EMA 5365: Biomimetic Synthesis
- EMA 6001: Properties of Materials - A Survey
- EMA 6005: Thin and Thick Films
- EMA 6105: Fundamentals and Applications of Surface Science
- EMA 6106: Advanced Phase Diagrams
- EMA 6107: High Temperature Materials
- EMA 6109: Physical Chemistry of High Temperature Materials
- EMA 6110: Electron Theory of Solids for Materials Scientists I
- EMA 6111: Electron Theory of Solids for Materials Scientists II
- EMA 6114: Advanced Materials Principles 2
- EMA 6128: Materials Microstructures
- EMA 6136: Diffusion, Kinetics, and Transport Phenomena
- EMA 6165: Polymer Physical Science
- EMA 6166: Polymer Composites
- EMA 6226: Synthesis and Properties of Metallic Nanostructures
- EMA 6227: Advanced Mechanical Metallurgy II
- EMA 6265: Mechanical Properties of Polymers
- EMA 6313: Advanced Materials Principles I
- EMA 6315: Colloidal Hydrodynamics
- EMA 6316: Materials Thermodynamics
- EMA 6319: Applied Colloid and Interfacial Chemistry for Engineers
- EMA 6412: Synthesis and Characterization of Electronic Materials
- EMA 6416: Organic Electronics
- EMA 6445: Electroceramics
- EMA 6446: Solid State Ionics
- EMA 6448: Ceramic Processing
- EMA 6461: Polymer Characterization
- EMA 6507: Scanning Electron Microscopy and Microanalysis
 - EMA 6507C
- EMA 6507L: Scanning Electron Microscopy and Microanalysis Lab
- EMA 6510: Survey of Materials Analysis Techniques
- EMA 6512C: X-ray Scattering for Thin Film Analysis
- EMA 6518: Transmission Electron Microscopy
- EMA 6518L: Transmission Electron Microscopy Laboratory
- EMA 6519L: Specialized Research Techniques in Materials Science
- EMA 6540: Fundamentals of Crystallography
- EMA 6541: Applied Crystallography and Powder Diffraction
- EMA 6580: Science of Biomaterials I
- EMA 6581C: Polymeric Biomaterials
- EMA 6589: Mechanical Behavior of Biomaterials
- EMA 6590: Advances in Biomaterials and Tissue Engineering for Healthcare
- EMA 6591: Clinical Applications of Biomaterials and Tissue Engineering
- EMA 6616: Advanced Electronic Materials Processing
- EMA 6625: Advanced Metals Processing
- EMA 6667: Polymer Processing
- EMA 6715: Fracture of Brittle Materials
- EMA 6803: Classical Methods in Computational Materials Science
- EMA 6804: Quantum Methods in Computational Materials Science
- EMA 6805: Mathematical Methods in Materials Science I
- EMA 6806: Mathematical Methods in Materials Science II
- EMA 6808: Error Analysis and Optimization Methodologies in Materials Research
- EMA 6905: Individual Work in Materials Science and Engineering
- EMA 6910: Supervised Research
- EMA 6936: Seminar in Materials Science and Engineering
- EMA 6938: Special Topics in Materials Science and Engineering
- EMA 6971: Research for Master's Thesis
 - EMA 6xxxA
 - EMA 6xxxB
 - EMA 6XXXL
- EMA 7979: Advanced Research
- EMA 7980: Research for Doctoral Dissertation
- ENU 6805: Introduction to Nuclear Reactor Materials

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn

Graduate Coordinator: D. W. Mikolaitis

Complete faculty listing by department: [Follow this link.](#)

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), Engineer, and Doctor of Philosophy in aerospace engineering and mechanical engineering. Minimum requirements for these degrees are given in the *General Information* section of this catalog. Additional information can be found at <http://www.mae.ufl.edu/graduate>. Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of challenging problems. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Aerospace Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Aerospace Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics
- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
- EAS 6910: Supervised Research
- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
- EGM5533: Applied Elasticity and Advanced Mechanics of Solids
- EGM5584: Biomechanics of Soft Tissue
- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III

- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials
- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
- EGM7980: Research for Doctoral Dissertation
- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics
- EML 5124: Two-Phase Flow and Boiling Heat Transfer
- EML 5131: Combustion
- EML 5215: Analytical Dynamics I
- EML 5223: Structural Dynamics
- EML 5224: Acoustics
- EML 5233: Failure of Materials in Mechanical Design
- EML 5311: Control System Theory
- EML 5318: Computer Control of Machines and Processes
- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers
- EML 5515: Gas Turbines and Jet Engines
- EML 5516: Design of Thermal Systems
- EML 5526: Finite Element Analysis and Application
- EML 5595: Mechanics of the Human Locomotor System
- EML 5598: Orthopedic Biomechanics
- EML 5605: Advanced Refrigeration
- EML 5714: Introduction to Compressible Flow
- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II
- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I
- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control
- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
- EML 6451: Energy Conversion
- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Mechanical Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Mechanical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics
- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
- EAS 6910: Supervised Research
- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
- EGM5533: Applied Elasticity and Advanced Mechanics of Solids
- EGM5584: Biomechanics of Soft Tissue
- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III
- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials
- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
- EGM7980: Research for Doctoral Dissertation
- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics

- EML 5124: Two-Phase Flow and Boiling Heat Transfer
- EML 5131: Combustion
- EML 5215: Analytical Dynamics I
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- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers
- EML 5515: Gas Turbines and Jet Engines
- EML 5516: Design of Thermal Systems
- EML 5526: Finite Element Analysis and Application
- EML 5595: Mechanics of the Human Locomotor System
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- EML 5605: Advanced Refrigeration
- EML 5714: Introduction to Compressible Flow
- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II
- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I
- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control
- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
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- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Nuclear and Radiological Engineering Department

Chair: D. Hintenlang

Graduate Coordinator: W. Bolch

Complete faculty listing: [Follow this link.](#)

The Department offers the degrees of Master of Science, Master of Engineering, and Doctor of Philosophy in nuclear engineering sciences with emphases in nuclear power engineering, medical physics, and health physics. Complete descriptions of the minimum requirements for these degrees are provided in the *General Information* section of this catalog.

The medical physics and health physics options are offered through interdepartmental programs in cooperation with the College of Medicine (see the *Health Physics and Medical Physics* description under *Interdisciplinary Graduate Studies*).

Combined Program — The Department also offers a B.S.N.E./M.S. degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students may begin their master's program while seniors counting 12 hours of specified nuclear engineering sciences graduate courses for both the bachelor's and master's degree requirements. Seniors admitted to the combined program are eligible for teaching and research assistantships. Program admission requirements are (1) satisfaction of Graduate School admission requirements for a master's degree, (2) an upper-division (undergraduate) GPA of at least 3.6, and (3) completion of specified bachelor's degree requirements.

The graduate program has two major programs, Nuclear Engineering and Medical Physics. Specific areas of research and study in Nuclear Engineering include advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security. The Medical Physics program is a CAMPEP accredited program designed to meet the professional requirements for a career in clinical service or research and development. Areas of Medical Physics study and research include diagnostic medical imaging, radiation therapy, nuclear medicine imaging, and radiation dosimetry.

The requirement for admission to the graduate program in nuclear engineering sciences is a bachelor's degree in an approved program in engineering or in the sciences. Students applying to the Medical Physics program should have completed the equivalent of at least a minor in physics. If the student's background is considered deficient for the planned course of study, an articulation program of background courses will be required.

Depending on professional objectives, the student may select a non-thesis option for the MS degree and substitute 8 credits of graduate-level course work, of which at least 6 credits are in nuclear engineering sciences, including a 4-credit (minimum) special project, [ENU 6936](#). Completion of 32 credits will meet the minimum requirements for the non-thesis MS degree.

Normally, the requirements for a master's degree can be completed in 12 months. Students in the medical physics option usually take 21 to 24 months to complete the master's degree, which requires 40-42 credit hours. For a master's degree in health physics, a student must complete 42 hours of credit. If articulation work is required, it may take longer, depending upon the extent of the student's deficiency.

Other

Nuclear Engineering Sciences

College

[College of Engineering](#)

Department/School

[Nuclear and Radiological Engineering Department](#)

Degrees Offered with a Major in Nuclear Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

Master of Engineering

Master of Science

Courses

- ENU 5142: Reliability and Risk Analysis for Nuclear Facilities
- ENU 5176L: Principles of Nuclear Reactor Operations Laboratory
- ENU 5186: Nuclear Fuel Cycles
- ENU 5196: Nuclear Reactor Power Plant System Dynamics and Control
- ENU 5516L: Nuclear Engineering Laboratory II
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology
- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 5705: Advanced Concepts for Nuclear Energy
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6053: Radiation Interaction Basics and Applications II
- ENU 6061: Survey of Medical Radiological Physics
- ENU 6106: Nuclear Reactor Analysis I
- ENU 6107: Nuclear Reactor Analysis II

- ENU 6126: Fundamentals of Reactor Kinetics
- ENU 6135: Nuclear Thermal Hydraulics
- ENU 6623: Radiation Dosimetry
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6651: Clinical Rotation in Radiation Therapy
- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6655: Advanced Diagnostic Radiological Physics
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure
- ENU 6835: Nuclear Fuels
- ENU 6905: Individual Work
- ENU 6910: Supervised Research
- ENU 6935: Nuclear and Radiological Engineering Seminar
- ENU 6936: Special Projects in Nuclear and Radiological Engineering Sciences
- ENU 6937: Special Topics in Nuclear and Radiological Engineering Sciences
- ENU 6971: Research for Master's Thesis
- ENU 6972: Research for Engineer's Thesis
- ENU 7979: Advanced Research
- ENU 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

College of Health and Human Performance

Dean: M. Reid

Complete faculty listings: [Follow this link.](#)

Research and teaching in HHP has an impact on almost every aspect of the human condition. The college's four centers – the [Florida Center for Health Promotion](#), [Center for Exercise Science](#), and the [Eric Friedheim Tourism Institute](#) – as well as its three primary departments – [Applied Physiology and Kinesiology](#), [Health Education and Behavior](#), and [Tourism, Recreation, and Sport Management Department](#) – place the college firmly in a position to influence and improve an array of societal problems and challenges.

For more information about the College of Health and Human Performance, please see our website: <http://hhp.ufl.edu>

[Departments and Programs within the College of Health and Human Performance](#)

[College of Health and Human Performance Courses](#)

Other

Health and Human Performance

College

[College of Health and Human Performance](#)

Health and Human Performance Program Information

The Ph.D. in Health and Human Performance is a single college-wide Ph.D. program with 6 concentrations that are housed and administered by the three departments, according to the following organizational structure:

- **Applied Physiology and Kinesiology (APK):** Ph.D. students in APK study the immediate and lasting effects of exercise and its use in disease prevention and rehabilitation. APK Ph.D. concentrations include Exercise Physiology and Biobehavioral Science, with further specializations in biomechanics, motor control and learning, exercise and performance psychology, and sports medicine / athletic training
- **Health Education & Behavior (HEB):** Ph.D. students in HEB systematically investigate health promotion strategies aimed at modifying behaviors which will improve individual, family, workplace, and community health and well-being. The HEB Ph.D. concentration is in Health Behavior.
- **Tourism, Recreation, and Sport Management (TRSM):** TRSM Ph.D. students study the impact of tourism, recreation activities, professional and amateur sports, ecotourism, parks and beaches on the personal, social, economic, environmental and resource infrastructures of society. Ph.D. concentrations in TRSM include Natural Resource Recreation, Sport Management, and Tourism.

Students are expected to be involved in research throughout their Ph.D. program, which requires approximately three to five years of full-time study for completion. Graduates of the program are trained to assume positions as post-doctoral research scientists, or entry level professorships at colleges and universities throughout the country. The program of study is developed by the student and the supervisory committee based on the student's background, interests, and career goals, as well as faculty expertise. By design, the program is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in their areas of concentration.

For more information, please see our website: <http://gradprograms.hhp.ufl.edu/index.php/doctoral-program>.

Degrees Offered with a Major in Health and Human Performance

Doctor of Philosophy

without a concentration

concentration in Applied Physiology and Kinesiology

optional second concentration in Clinical and Translational Science

concentration in Biobehavioral Science

concentration in Clinical and Translational Science

concentration in Exercise Physiology

concentration in Health Behavior

optional second concentration in Clinical and Translational Science

concentration in Historic Preservation

concentration in Recreation, Parks, and Tourism

concentration in Sport Management

Applied Physiology and Kinesiology Departmental Courses

- APK 5127: Assessment in Exercise Science
- APK 5404: Sport Psychology
- APK 6111L: Practicum in Exercise Physiology
- APK 6116C: Physiological Bases of Exercise and Sport Sciences
- APK 6118: Neuromuscular Adaptation to Exercise
- APK 6126: Cardiopulmonary Pathologies
- APK 6128: EKG Interpretation
- APK 6205C: Nature and Bases of Motor Performance
- APK 6206: Planning Motor Actions
- APK 6210: Controlling Motor Actions
- APK 6225: Biomechanical Instrumentation
- APK 6226C: Biomechanics of Human Motion
- APK 6406: Exercise Psychology
- APK 6408: Performance Enhancement

- APK 6410: Seminar in Exercise Psychology
- APK 6415: Seminar in Sport Psychology: Current Topics
- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- APK 7107: Cardiovascular Exercise Physiology
- APK 7108: Environmental Stress Exercise Physiology
- APK 7117: Exercise Metabolism
- APK 7124: Free Radicals in Aging, Exercise and Disease
- APK 7129: Pulmonary Function during Exercise
- ATR 6124: Clinical Anatomy for the Exercise Sciences
- ATR 6145: Human Pathophysiology for the Exercise Sciences
- ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity
- ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity
- ATR 6304: Rehabilitation and Modalities of Athletic Injuries
- ATR 6624: Athletic Training Research and Technology I
- ATR 6625: Athletic Training Research and Technology II
- ATR 6934: Seminar in Athletic Training
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis

Health Education and Behavior Departmental Courses

- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- HSC 5135: Emotional Health Education
- HSC 5138: Human Sexuality
- HSC 5142: Drug Education
- HSC 5315C: Teaching Health in Elementary Schools
- HSC 5536C: Medical Terminology for the Health Professions
- HSC 5576: Nutrition Education for Special Populations
- HSC 5606: Spirituality and Health
- HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health
- HSC 5626: Minority Health Issues
- HSC 5657: Health and End-of-Life Issues
- HSC 5925: Seminar in Health Education
- HSC 5956: Writing for Professional Publications
- HSC 6037: Philosophy and Principles of Health Education
- HSC 6216: Environmental Health
- HSC 6235: Patient Health Education
- HSC 6318: Planning Health Education Programs
- HSC 6506: Epidemiology
- HSC 6567: Health Promotion and Programming in Gerontology
- HSC 6571: Contemporary Issues in Health Promotion
- HSC 6575: Women's Health Issues
- HSC 6595: HIV/AIDS Education
- HSC 6603: Theories of Health Behavior and Practice in Health Education
- HSC 6605: Scientific Foundations of Holistic Health
- HSC 6625: Trends in International Health
- HSC 6629: Health Promotion for Priority Populations
- HSC 6637: Social Marketing and Health
- HSC 6646: Community Health Methods in Injury Prevention & Control
- HSC 6665: Health Communication
- HSC 6667: Health Communication Programs
- HSC 6668: Interpersonal Communication and Health
- HSC 6695: Worksite Health Promotion
- HSC 6712: Evaluating Health Education Programs
- HSC 6735: Research Methods in Health Education
- HSC 6850: Internship in Health Education
- HSC 6904: Readings in Health Education
- HSC 6905: Independent Study
- HSC 6910: Supervised Research
- HSC 6935: Current Topics in Health Education
- HSC 6940: Supervised Teaching
- HSC 6971: Research for Master's Thesis
- HSC 6973: Project in Lieu of Thesis
- HSC 7904: Advanced Readings in Health Education
- HSC 7905: Advanced Independent Study in Health Education

- HSC 7937: Advanced Seminar in Health Education
- PEQ 5127: Advanced Instructors of Adapted Aquatics
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- PHC 6105: Health Promotion Policy and Practice

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism
- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM 5016: Sport Sociology
- SPM 5206: Sport Ethics
- SPM 5309: Sport Marketing
- SPM 5506: Sport Finance
- SPM 5936: Current Topics in Sport Management
- SPM 6006: Contemporary Sport Industry
- SPM 6036: Research Seminar in Sport Management
- SPM 6106: Management and Planning of Sport and Physical Activity Facilities
- SPM 6158: Management and Leadership in Sport
- SPM 6308: Study of Sport Consumer Behaviors
- SPM 6726: Issues in Sport Law
- SPM 6905: Directed Independent Study
- SPM 6910: Supervised Research
- SPM 6947: Graduate Internship in Sport Management
- SPM 6948: Advanced Practicum in Sport Management
- SPM 6971: Research for Master's Thesis

Applied Physiology and Kinesiology Department

Chair: S. Dodd

Graduate Coordinator: E. Christou

Complete faculty listing by department: [Follow this link.](#)

The **Ph.D. program** is offered with concentrations in biobehavioral science and exercise physiology. Students in the biobehavioral science concentration specialize in one of four areas: biomechanics, exercise / performance psychology, motor control / learning, or sports medicine. These interdisciplinary concentrations focus on preparing students as researchers with a blend of course work and research training.

A program leading to the **Master of Science** degree in applied physiology and kinesiology (thesis and non-thesis options) is also offered. Areas of concentration for the master's program include athletic training/sports medicine, biobehavioral science, clinical exercise physiology, exercise physiology, and human performance. The thesis option gives the student an opportunity to study, conduct research, and prepare a thesis in an area of special interest. The non-thesis option offers the student a specialization in a selected area of study, with additional work in other areas. A comprehensive written examination is required for this option, as is a capstone internship experience. Requirements for these degrees are given in the *General Information* section of

this catalog.

Athletic training/sports medicine: This concentration provides comprehensive academic preparation, research, and clinical experience in the areas of injury prevention, assessment, treatment, rehabilitation, and therapeutic modalities.

Biobehavioral Science: This thesis mandatory concentration is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in one of several related disciplines: biomechanics, motor control and learning, and exercise and performance psychology. Each area of specialization is briefly described below.

- *Biomechanics:* The specialization in biomechanics draws from the fields of neuroscience, engineering, and medicine. The course work and training include kinematics and kinetics of movement. Course work also includes anatomy/kinesiology, biomechanics, engineering, neuroscience, medicine, psychology, physical therapy, and statistics.
- *Motor learning / control:* This interdisciplinary specialization draws on experiences and a knowledge base in the movement and sport sciences, cognitive sciences, and physical therapy. Students are prepared to conduct research and provide expertise in traditional motor performance and learning settings.
- *Exercise / performance psychology:* This area of specialization provides the basis for understanding and influencing the underlying thought processes and attitudes that will ultimately determine the performance of individuals involved in sport, exercise, and other achievement oriented activities. The primary emphasis is to develop the scientific background and skills necessary for doctoral training and research.

Clinical exercise physiology: The purpose of this non-thesis program is to give students the opportunity to develop advanced knowledge and competencies in Exercise Physiology. Clinical Exercise Physiologists typically practice in hospitals, clinics and wellness centers as part of a health care team that administers tests and develops programs of exercise, counseling, and education for patients with cardiopulmonary, metabolic, and musculoskeletal diseases.

Exercise physiology: This thesis mandatory area of concentration is concerned with the scientific study of how the various physiological systems of the human body respond to physical activity. It is a multidisciplinary field with strong ties to the basic life sciences and medicine, and application to clinical, normal, and athletic populations.

Human performance: This non-thesis master's concentration merges a range of specializations within the Department into a curriculum that provides educational experiences to graduate students interested in studying the factors that determine human performance in both athletic and nonathletic domains. This flexible approach allows students to focus on specific applications that best meet their individual interests. Human performance incorporates components such as nutrition, psychology, motor behavior, and physiology that are applicable to athletic and clinical populations.

Other

Applied Physiology and Kinesiology

College

[College of Health and Human Performance](#)

Department/School

[Applied Physiology and Kinesiology Department](#)

Applied Physiology and Kinesiology Program Information

Graduate study in Applied Physiology and Kinesiology (APK) is focused on research in concentration areas including athletic training biomechanics; motor control and learning exercise physiology; and exercise and performance psychology. Graduate students are exposed to and directly involved in research covering the full multidisciplinary spectrum of human potential from young to old, fit to unfit, healthy to diseased, able-bodied to disabled, and from the casual recreational participant to the high-level athlete. In addition to human performance issues, APK faculty and students study the immediate and lasting effects of exercise and its use in disease prevention and rehabilitation.

For more information, please see our website: <http://apk.hhp.ufl.edu/index.php/current-students/prospective-students>.

Degrees Offered with a Major in Applied Physiology and Kinesiology

Master of Science

without a concentration

concentration in Athletic Training/Sports Medicine

concentration in Biobehavioral Science

concentration in Clinical Exercise Physiology

concentration in Exercise Physiology

concentration in Human Performance

Applied Physiology and Kinesiology Departmental Courses

- APK 5127: Assessment in Exercise Science
- APK 5404: Sport Psychology
- APK 6111L: Practicum in Exercise Physiology
- APK 6116C: Physiological Bases of Exercise and Sport Sciences
- APK 6118: Neuromuscular Adaptation to Exercise
- APK 6126: Cardiopulmonary Pathologies
- APK 6128: EKG Interpretation
- APK 6205C: Nature and Bases of Motor Performance
- APK 6206: Planning Motor Actions
- APK 6210: Controlling Motor Actions
- APK 6225: Biomechanical Instrumentation
- APK 6226C: Biomechanics of Human Motion
- APK 6406: Exercise Psychology
- APK 6408: Performance Enhancement
- APK 6410: Seminar in Exercise Psychology
- APK 6415: Seminar in Sport Psychology: Current Topics
- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- APK 7107: Cardiovascular Exercise Physiology
- APK 7108: Environmental Stress Exercise Physiology
- APK 7117: Exercise Metabolism
- APK 7124: Free Radicals in Aging, Exercise and Disease
- APK 7129: Pulmonary Function during Exercise
- ATR 6124: Clinical Anatomy for the Exercise Sciences
- ATR 6145: Human Pathophysiology for the Exercise Sciences
- ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity
- ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity
- ATR 6304: Rehabilitation and Modalities of Athletic Injuries
- ATR 6624: Athletic Training Research and Technology I
- ATR 6625: Athletic Training Research and Technology II
- ATR 6934: Seminar in Athletic Training
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis

Department of Health Education & Behavior

Chair: Jalie A. Tucker

Graduate Coordinator: Christine B. Stopka

Complete faculty listing by department: [Follow this link.](#)

The Department of Health Education & Behavior offers a Doctor of Philosophy (Ph.D.) in Health and Human Performance with a concentration in Health Behavior, a non-thesis 30-credit hour Master of Science and a 36-credit Master of Science (M.S.) in Health Education and Behavior. Requirements for the Ph.D. and M.S. degrees are given in the *General Information* section of this catalog.

The Ph.D. degree program trains health behavior researchers for academic positions in federal health agencies such as the Centers for Disease Control and Prevention and the National Institutes of Health for postdoctoral research fellowships and for the private sector.

The 30-credit hour, non-thesis M.S. degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a

minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector. Full-time students can complete this M.S. option in one year. This degree may also give students unique and distinguishing training experiences when applying to professional schools such as law, medicine, physician assistant, dentistry, chiropractic, osteopathy, nursing, occupational therapy, and physical therapy.

The 36-credit hour project in lieu of thesis, and the 36-credit hour thesis options are designed for students interested in developing research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically can complete these options in about 4 semesters.

The Department also offers an accelerated B.S./M.S. program in health education and behavior to enable students to receive both B.S. and M.S. degrees with a reduction of 12 credits (about one semester of course work).

Students who complete a graduate degree program in the Department of Health Education & Behavior acquire a range of skills required to research, plan, implement, and evaluate health promotion policies and programs aimed at improving the health and well-being of individuals, families, and communities. Specific skills include:

- Conducting needs and capacity assessments to identify health priorities
- Planning, implementing, and evaluating health promotion policies and programs
- Conducting research on questions associated with health problems and their determinants and health promotion policies and programs
- Administering and managing health promotion programs
- Advocating for health promotion policies and programs in schools, communities, health care facilities, and worksites
- Developing social marketing and health communication messages and campaigns
- Researching and developing social media and new media-based health promotion applications
- Serving as a resource person for health information and referrals
- Using a variety of teaching-learning strategies appropriate to the target audience and setting
- Writing scholarly and professional articles
- Working collaboratively with public and private agencies, nongovernmental organizations (NGOs) and the private sector to achieve the goal of a healthier population.

This degree prepares the health promotion specialists and health behavior scientists to work in:

- Local, state, and federal health, education and social agencies
- Nongovernmental health organizations
- Schools and universities
- Healthcare settings
- Private sector

Sample position titles for individuals with this degree include:

- Health education specialist
- Health promotion specialist
- Public health adviser or public health analyst
- Health promotion coordinator or health promotion consultant
- Campus health educator or patient health educator,
- Health communication specialist
- Wellness specialist
- Wellness promotion coordinator
- Prevention specialist

For additional information, visit <http://www.hhp.ufl.edu/heh>.

Other

Health Education and Behavior

College

[College of Health and Human Performance](#)

Department/School

[Department of Health Education & Behavior](#)

Health Education and Behavior Program Information

The 30-credit hour, non-thesis in the Master of Science in Health Education and Behavior degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector.

The 30-credit, non-thesis Pre-Professional Health Science Track is designed for students seeking a career in health care. This option allows you to choose a minimum of 12 credits of basic science elective coursework which are prerequisites for dental, medical, nursing, occupational therapy, physician assistant, physical therapy, and other health professional programs including 6 credits of undergraduate science courses (3000-4999). This degree track prepares students who are interested in graduate studies in the health sciences and or pursuing health professional training. Full-time students can complete the 30-credit hour M.S. options in one year.

The 36-credit Thesis Option, and the 36-credit Project In Lieu Of Thesis Option, in the Master of Science in Health Education and Behavior degree programs are designed for students interested in improving their research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically complete these options in about 4 semesters.

For more information, please see our website: <http://heb.hhp.ufl.edu/index.php/academia/graduate-programs/masters-programs>.

Degrees Offered with a Major in Health Education and Behavior

Master of Science

Health Education and Behavior Departmental Courses

- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- HSC 5135: Emotional Health Education
- HSC 5138: Human Sexuality
- HSC 5142: Drug Education
- HSC 5315C: Teaching Health in Elementary Schools
- HSC 5536C: Medical Terminology for the Health Professions
- HSC 5576: Nutrition Education for Special Populations
- HSC 5606: Spirituality and Health
- HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health
- HSC 5626: Minority Health Issues
- HSC 5657: Health and End-of-Life Issues
- HSC 5925: Seminar in Health Education
- HSC 5956: Writing for Professional Publications
- HSC 6037: Philosophy and Principles of Health Education
- HSC 6216: Environmental Health
- HSC 6235: Patient Health Education
- HSC 6318: Planning Health Education Programs
- HSC 6506: Epidemiology
- HSC 6567: Health Promotion and Programming in Gerontology
- HSC 6571: Contemporary Issues in Health Promotion
- HSC 6575: Women's Health Issues
- HSC 6595: HIV/AIDS Education
- HSC 6603: Theories of Health Behavior and Practice in Health Education
- HSC 6605: Scientific Foundations of Holistic Health
- HSC 6625: Trends in International Health
- HSC 6629: Health Promotion for Priority Populations
- HSC 6637: Social Marketing and Health
- HSC 6646: Community Health Methods in Injury Prevention & Control
- HSC 6665: Health Communication
- HSC 6667: Health Communication Programs
- HSC 6668: Interpersonal Communication and Health
- HSC 6695: Worksite Health Promotion
- HSC 6712: Evaluating Health Education Programs
- HSC 6735: Research Methods in Health Education
- HSC 6850: Internship in Health Education
- HSC 6904: Readings in Health Education
- HSC 6905: Independent Study
- HSC 6910: Supervised Research
- HSC 6935: Current Topics in Health Education
- HSC 6940: Supervised Teaching
- HSC 6971: Research for Master's Thesis
- HSC 6973: Project in Lieu of Thesis
- HSC 7904: Advanced Readings in Health Education
- HSC 7905: Advanced Independent Study in Health Education
- HSC 7937: Advanced Seminar in Health Education
- PEQ 5127: Advanced Instructors of Adapted Aquatics
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- PHC 6105: Health Promotion Policy and Practice

Tourism, Recreation, and Sport Management Department

[College of Health and Human Performance](#)

Chair: Michael Sagas.

Graduate Coordinator: Stephen Holland.

Complete faculty listing: [Follow this link.](#)

The degree Master of Science is offered by the Department of Tourism, Recreation, and Sport Management with programs in sport management and in recreation, parks, and tourism. Both programs offer thesis and non-thesis formats. The Department participates in the Ph.D. program in Health and Human Performance. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Master's program provides advanced preparation of tourism, recreation, and parks and sport management professionals for positions of leadership in planning, developing, administering and marketing of programs in a variety of employment settings; public and private. Concentrations of study may be developed in a number of areas, such as:

- Natural resource recreation management
- Tourism and commercial recreation
- Campus recreation
- Recreation administration and supervision
- Sport management

The Doctoral program is offered through the College of Health and Human Performance with concentrations in tourism, natural resource recreation and sport management. These interdisciplinary specializations blend course work and research. The curriculum is individualized, and applicants with degrees from unrelated fields can be accepted into the program. However, their previous work will be evaluated and their programs planned according to their individual needs, interests, and career objectives.

Combined program: The Department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of approximately one semester. Up to 12 approved graduate credit hours can be utilized toward both degrees.

MS/MSM Concurrent Degree Program: This joint degree program is offered through the College of Business Administration (Master of Science in Business Management [MSM]) and the College of Health and Human Performance's, Department of Tourism, Recreation and Sport Management (Master of Science in Sport Management [MS]). Applicants must apply to both programs and be admitted to both to participate. The MS/MSM is a non-thesis degree. The MS/MSM is designed for students who seek a graduate business degree and who lack the work experience necessary for admission to the MBA program. The MS/MSM curriculum is similar to the first year of the MBA program, giving students a good foundation in business principles. Concurrent degree students can share up to 9 credit hours of the same coursework towards both degree programs. They do not have to graduate during the same semester. Students admitted into the concurrent program must work closely with both departments to verify all requirements are being met during their course of study.

MS./J.D. joint program: This 98-credit-hour joint degree program culminates in the Master of Science and the Juris Doctor degrees. Applicants must meet the entrance requirements for the Department of Tourism, Recreation, and Sport Management and the College of Law. Admission to the second degree program is required no later than the end of the fourth consecutive semester after beginning one of the degree programs. The student's supervisory committee comprises faculty members from both the Department of Tourism, Recreation, and Sport Management and the College of Law. Students admitted into the joint program are permitted to share up to 12 credit hours of the same coursework towards both degree programs. Students must graduate during the same semester from both programs.

Other

Recreation, Parks, and Tourism

College

[College of Health and Human Performance](#)

Department/School

[Tourism, Recreation, and Sport Management Department](#)

Recreation, Parks, and Tourism Program Information

The Master of Science in Recreation, Parks and Tourism offers the following four areas of concentration:

1. Tourism and Commercial Recreation

- Travel activities to and staying outside one's usual environment; hospitality, transportation
- Recreation activities covered by fees, charges or other non-tax revenues; theme/amusement/water parks, movie theaters, sport/fitness/health clubs, resorts
- Examples of employers include: travel agencies, cruise lines, dance studios, special event companies, resorts, multipurpose sports clubs and health & fitness clubs

2. Natural Resource Recreation

- Park(s) management, protected areas, wilderness conservation
- State parks, river floating, horseback riding, hiking trails
- Beach management, rivers and lakes, sustainability
- Outdoor recreation leadership
- Conservation management, planning, and policy
- Federal agencies (National Parks, U.S. Army Corp of Engineers)

3. Recreation Administration and Supervision

- City/state public parks
- City pools
- City skate parks, family parks
- Public tennis courts
- City sports teams/leagues, youth sports
- Organized group and youth camps
- Military recreation departments (Morale, Welfare & Recreation [MWR] programs)

4. Campus Recreation Programming & Administration

- college campus intramural recreation programs
- campus fitness / exercise centers

Graduates of the Master of Science in Recreation, Parks & Tourism will be trained for middle and/or upper level management positions, in their respective fields mentioned above. Students can choose between three options: 1.) Thesis, or 2.) Non-Thesis Internship, or 3.) Non-Thesis with Paper.

For more information, please see our website: <http://trsm.hhp.ufl.edu/index.php/graduate/masters-programs/recreation-parks-and-tourism>.

Degrees Offered with a Major in Recreation, Parks, and Tourism

Master of Science

without a concentration

concentration in Historic Preservation

concentration in Natural Resource Recreation

concentration in Therapeutic Recreation

concentration in Tourism

concentration in Tropical Conservation and Development

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts

- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism
- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM5016: Sport Sociology
- SPM5206: Sport Ethics
- SPM5309: Sport Marketing
- SPM5506: Sport Finance
- SPM5936: Current Topics in Sport Management
- SPM6006: Contemporary Sport Industry
- SPM6036: Research Seminar in Sport Management
- SPM6106: Management and Planning of Sport and Physical Activity Facilities
- SPM6158: Management and Leadership in Sport
- SPM6308: Study of Sport Consumer Behaviors
- SPM6726: Issues in Sport Law
- SPM6905: Directed Independent Study
- SPM6910: Supervised Research
- SPM6947: Graduate Internship in Sport Management
- SPM6948: Advanced Practicum in Sport Management
- SPM6971: Research for Master's Thesis

Sport Management

College

[College of Health and Human Performance](#)

Department/School

[Tourism, Recreation, and Sport Management Department](#)

Sport Management Program Information

Sport Management integrates concepts of management, marketing, finance and law to apply to sport organizations at various levels and prepares students for a variety of volunteer and employment opportunities at the professional, collegiate, community and amateur level sport entities. Its focus is on the business and organization aspects of sport, not coaching or athletic performance.

For more information, please see our website: <http://trsm.hhp.ufl.edu/index.php/graduate/masters-programs/sport-management>.

Degrees Offered with a Major in Sport Management

Master of Science

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism
- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM 5016: Sport Sociology
- SPM 5206: Sport Ethics
- SPM 5309: Sport Marketing
- SPM 5506: Sport Finance
- SPM 5936: Current Topics in Sport Management
- SPM 6006: Contemporary Sport Industry
- SPM 6036: Research Seminar in Sport Management
- SPM 6106: Management and Planning of Sport and Physical Activity Facilities
- SPM 6158: Management and Leadership in Sport
- SPM 6308: Study of Sport Consumer Behaviors
- SPM 6726: Issues in Sport Law
- SPM 6905: Directed Independent Study
- SPM 6910: Supervised Research
- SPM 6947: Graduate Internship in Sport Management
- SPM 6948: Advanced Practicum in Sport Management
- SPM 6971: Research for Master's Thesis

College of Journalism and Communications

Dean: D. McFarlin

Senior Associate Dean for Graduate Studies and Research: D. Treise

Graduate Coordinators:

(Advertising) J. R. Goodman

(International Communication) M. Leslie

(Journalism) R. Rodgers

(Public Relations) M.A. Ferguson

(Science/Health Communication) D. Treise

(Telecommunication) J. Cleary.

Complete faculty listings: [Follow this link.](#)

Through the Division of Graduate Studies and Research, the College of Journalism and Communications offers the Doctor of Philosophy degree, the Master of Arts in Mass Communication (thesis or project option) degree, and the Master of Advertising (thesis) degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Doctoral students work closely with faculty members in research leading to a dissertation embodying a humanities, law/policy, or social sciences approach. Emphases within these approaches

for which faculty members have expertise include advertising, journalism, public relations, telecommunication, international communication, and political communication. Details of doctoral faculty research interests and other aspects of the program are given in the College's Ph.D. Handbook.

Master's students may complete a thesis in advertising, journalism, public relations, telecommunication, international communication, or science/health communication. With the approval of the Sr. Associate Dean of Graduate Studies and Research and other faculty members, master's students may develop an individualized program of study, with thesis, to meet their specific needs and interests. A project in lieu of thesis option is available for some specializations.

Mass Communication/Law joint degree programs: Programs leading to the Master of Arts in Mass Communication or the Doctor of Philosophy and the Juris Doctor are offered under the joint auspices of the College of Journalism and Communications and the College of Law. For students interested in scholarship or practice of communication law or in reporting on the law, the programs offer the opportunity to blend relevant work from the two colleges. Students must meet the entrance requirements of both colleges. A thesis or dissertation is required. Interested students should apply for admission to both the Graduate School and the College of Law, noting on the applications the joint nature of the admission requests. Further information on the programs and on application procedures is available from the Holland Law Center and from the Division of Graduate Studies and Research of the College of Journalism and Communications.

General admission: Admission is granted to applicants with and without background in mass communication. Students without academic preparation in mass communication or appropriate experience may be required to take articulation work. These courses are taken concurrently with general graduate courses, starting in the first term of registration. Some degree plans require a background course in statistics. Students who have satisfied that requirement must provide written verification. Including articulation courses, the master's degree normally can be earned in one and one-half or two years of full-time study. Doctoral studies require three or more years of full-time study and research. Students who may require articulation courses should contact the Sr. Associate Dean of Graduate Studies and Research.

Grading policy: Any student whose cumulative GPA falls below 3.0 will be placed on probation. Any doctoral student who receives one grade below B- or a Master's student who receives one grade below C+ will be placed on probation, with the exception of courses taken from the Levin College of Law. For these courses, any student receiving one grade below C in any course from the Levin College of Law will be placed on probation. A requirement of the probation is that the student must achieve or maintain a cumulative grade point average of 3.0 or higher at the end of the next academic term in residence. A student who fails to satisfy the requirement will be suspended. A Doctoral student who accumulates two grades below "B-" or a Master's student who accumulates two grades below C+ during graduate studies will be suspended, as will a student who receives one grade of "D+" or lower at any time. Students will be allowed only one suspension.

Combined degree program: The College offers a combined bachelor's/master's program. For information, contact the Associate Dean for Graduate Studies.

For additional information, please see our website: <http://www.jou.ufl.edu/grad>.

[College of Journalism and Mass Communication Courses](#)

Other

Advertising

College

[College of Journalism and Communications](#)

Advertising Program Information

The Master of Advertising (M.Adv.) program is designed to develop leaders in the profession by providing students with

1. the theoretical, research and decision-making skills essential for strategic advertising and integrated communications planning, as well as
2. the opportunity to develop expertise in a specialized area such as account management, research, creative strategy, media planning, new technology and advertising sales management.

Students without basic course background or substantial professional experience in marketing or advertising are required to complete articulation courses before entering the program. These prerequisite courses include Introduction to Advertising and Introduction to Marketing.

A minimum of 33 graduate level credit hours, including a thesis, is required. In some areas of specialization, with permission from the departmental graduate faculty, a terminal project may be elected in lieu of a thesis.

Students select a supervisory committee to guide their course selection as well as thesis topic or project in lieu of thesis and completion of the thesis or project. Students will complete and orally defend their theses or projects. The student's supervisory committee is responsible for the evaluation of the document and the final defense.

The deadline for Fall applications is January 30 for international applicants and April 1 for domestic students. Applications may be considered after the April 1 deadline, if space is available. The Master of Advertising program does not accept any applications for Spring.

For admissions information and application materials, contact [Sarah G. Lee](#).

For information about the advertising curriculum and program requirements, contact [Dr. Robyn Goodman](#).

For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/master-of-advertising>

Degrees Offered with a Major in Advertising

Master of Advertising

College of Journalism and Communications Courses

- ADV5005: Advertising Planning
- ADV6006: Theories of Advertising
- ADV6305: Advanced Media Planning
- ADV6325: Advertising and Social Media
- ADV6405: International Advertising
- ADV6503: Advertising Creative Strategy and Research
- ADV6505: Advertising Research Methods
- ADV6602: Advertising Management
- COM6315: Advanced Research Methods
- COM6338: Advanced Web Topics I: Advanced Design
- COM6940: Supervised Teaching
- FIL 6061: History of Documentary Film I
- FIL 6062: History of Documentary Film II
- FIL 6101: Advanced Radio, Television, and Film Writing
- FIL 6315: Writing for Documentary I
- FIL 6317: Producing and Writing the Documentary
- FIL 6335: Business of Documentary
- FIL 6340: Issues and Problems in Documentary
- FIL 6365: Documentary Pre-Production Planning
- FIL 6366: Documentary Procedures II
- FIL 6377: Documentary Field Production
- FIL 6378: Documentary Research Methods
- FIL 6380: Advanced Post-Production Techniques
- JOU 5007: History of Journalism
- JOU 5705: Issues and the Press
- JOU 6102: Reporting Workshop
- JOU 6114: Journalist Bootcamp
- JOU 6309: Seminar in Journalism as Literature
- JOU 6344: Journalist Toolkit 1
- JOU 6349: Journalist Toolkit 2
- JOU 6502: Newsroom Management
- MMC 5005: Mass Communication History
- MMC 5006: Introduction to Multimedia Communication
- MMC 5015: Electronic Publishing
- MMC 5206: Advanced Law of Mass Communication
- MMC 5277: Web Design Principles
- MMC 5306: International Communication
- MMC 5315: Survey of Foreign Correspondence
- MMC 5427: Research Methods in Digital Communication
- MMC 5636: Introduction to Social Media
- MMC 5708: Foundations of Intercultural Communication
- MMC 6202: Legal Problems of Mass Communication
- MMC 6278: Advanced Web Topics II
- MMC 6307: Seminar in International Communication
- MMC 6400: Mass Communication Theory
- MMC 6402: Seminar in Mass Communication Theory
- MMC 6405: Seminar in Mass Communication and Public Opinion
- MMC 6409: Science/Health Communication
- MMC 6417: Seminar in Mass Media and Health
- MMC 6421: Research Methods in Mass Communication
- MMC 6423: Content-Analysis Methods
- MMC 6426: Seminar in Qualitative Research
- MMC 6428: Collaborative Communication Research
- MMC 6429: News and Numbers
- MMC 6560: Seminar in History of Mass Communication
- MMC 6612: New Media and a Democratic Society
- MMC 6615: Race, Class, Gender, and Media
- MMC 6618: Survey of Political Communication
- MMC 6619: Seminar in Political Advertising
- MMC 6660: Mass Communication and Society
- MMC 6665: Seminar in First Amendment Theory
- MMC 6666: Seminar in Research in Mass Communication Law
- MMC 6667: Seminar in Advanced Topics in Mass Communication Law
- MMC 6668: Seminar in Public Policy Toward Mass Media
- MMC 6706: Covering the Arts
- MMC 6725: Social Media and Society
- MMC 6726: Social Media and Virtual Worlds
- MMC 6727: Social Media Metrics
- MMC 6728: Branding Using Social and Mobile Media
- MMC 6730: Social Media Management
- MMC 6905: Individual Work
- MMC 6910: Supervised Research
- MMC 6920: Communication Proseminar
- MMC 6929: Communication Colloquium
- MMC 6930: Seminar in Mass Communication Teaching
- MMC 6936: Special Topics in Mass Communication
- MMC 6949: Professional Internship
- MMC 6951: Masters Project Seminar
- MMC 6971: Research for Master's Thesis
- MMC 6973: Project in Lieu of Thesis
- MMC 7979: Advanced Research
- MMC 7980: Research for Doctoral Dissertation
- PUR 5507: Persuasion Theory and Research

- PUR 6005: Theories of Public Relations
- PUR 6006: Public Relations Foundations
- PUR 6403: Crisis and Risk Management
- PUR 6416: Public Relations and Fund Raising
- PUR 6446: Public Relations and Philanthropy
- PUR 6506: Public Relations Research
- PUR 6607: Public Relations Management
- PUR 6608: International Public Relations
- PUR 6934: Problems in Public Relations
- RTV 5702: Telecommunication Regulation
- RTV 6105: Writing for Electronic Media
- RTV 6309: Advanced TV Reporting
- RTV 6508: Audience Analysis
- RTV 6801: Telecommunication Management
- RTV 6807: Telecommunication Outlet Systems and Practices
- RTV 6973: Project in Lieu of Thesis
- VIC 5315: Corporate and Brand Identity on the Web
- VIC 5325: Digital Imagery in Web Design
- VIC 5326: Digital Media Layout and Design
- VIC 6316: Brand Management

Mass Communication

College

[College of Journalism and Communications](#)

Mass Communication Program Information

Ph.D. in Mass Communication

The Ph.D. degree is a research degree. The Ph.D. program is designed to help develop knowledge, attitudes, and skills so graduates can make important contributions to understanding mass communication. Faculty members help students lay the foundation for a lifetime of significant, creative work.

The doctoral program prepares students for a variety of opportunities in mass communication. Graduates are expected to teach at colleges and universities; conduct research for organizations in advertising, journalism, public relations, telecommunication, and other mass communication fields; do consulting and conduct research and contribute to policy in government and private organizations. Doctoral students in the College of Journalism and Communications gain valuable experience in both teaching and research. Assistantships help prepare students for academic and other research positions. Students in the program have consistently been among the nation's leaders in winning top-paper awards at national and regional scholarly meetings.

Master of Arts in Mass Communication (M.A.M.C.)

There are several specializations available for the Master of Arts in Mass Communication:

The **Journalism specialization** program in the UF College of Journalism and Communications combines study of the academic literature on the societal role and effects of mass communication in general and journalism in particular with courses designed to improve students' practice of the journalism craft. The Journalism specialization at the master's level is designed for students interested in all areas of non-broadcast journalism (i.e. newspapers, magazines and online publishing). Those who have an educational and/or professional background in journalism can enhance their understanding of the role of journalism in society, as well as improving reporting and writing skills. However, the program is also well-suited for students with a long-term interest in college-level journalism education, who can pursue the master's degree as preparation for entry into a doctoral program. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-journalism>.

The **Public Relations specialization** at the master's level is a research-based program designed to prepare students for careers and advancement in the industry or for entering doctoral studies. Students learn the conceptual foundations of public relations and develop professional and research competency within the duration of the program. Courses in the public relations specialization focus on conceptual foundations of public relations, including mass communication and society; professional and managerial skills mastery; and research expertise. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/master-of-public-relations>.

The **Telecommunication specialization** program in the UF College of Journalism and Communications combines courses in Mass Communication, Telecommunication, and other areas relevant to the student's goals. There is a thesis track, appropriate for students who will later seek the Ph.D. or who wish to learn the skills and knowledge associated with thesis research or project in lieu of thesis. The Telecommunication track is designed for students with the following interests:

- Operation or management of telecommunication outlets (broadcast stations, cable systems, program distributors, etc.) and emerging media
- Telecommunication regulation and policy
- Audience research
- Preparation for an advanced degree

For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-telecommunication>.

The **International/Intercultural Communication specialization**: The field of international communication encompasses the study of international journalism (both print and broadcast) and international business and marketing communication. The field of intercultural communication focuses on the interactions between people of different cultures, values and histories. Through their study, students learn to appreciate and engage diverse cultures and media, gaining the knowledge and skills you need to thrive in today's challenging global community. The international/intercultural track in mass communication culminates with the student writing a thesis on an international/intercultural topic in communication, applying one or more of the methods used in communication research. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-internationalintercultural-communication-specialization>.

The **Science and Health Communications specialization** program is designed to teach scientists and health specialists to communicate effectively via media, and to teach mass media specialists the background science to translate the language of science and health into meaningful and understandable stories for their audiences. These goals are achieved through theoretical writing and applied courses. At least two aspects of the program make it unique among science communication programs nationwide. First, other existing science communication programs in the U.S. focus on training journalists. UF's program is open to journalists who want to specialize in covering science and health, offers training for people planning to work as public affairs or public information officers for science and health organizations, for other communication specialists, and for scientists who need to be able to communicate with the public about their work. Second, the program focuses on training students to understand and communicate effectively about science and health policy. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-sciencehealth-communication>.

For more help with any of our graduate degree programs, please refer to our website: <http://www.jou.ufl.edu/academics>.

Degrees Offered with a Major in Mass Communication

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Arts in Mass Communication

College of Journalism and Communications Courses

- ADV 5005: Advertising Planning
- ADV 6006: Theories of Advertising
- ADV 6305: Advanced Media Planning
- ADV 6325: Advertising and Social Media
- ADV 6405: International Advertising
- ADV 6503: Advertising Creative Strategy and Research
- ADV 6505: Advertising Research Methods
- ADV 6602: Advertising Management
- COM 6315: Advanced Research Methods
- COM 6338: Advanced Web Topics I: Advanced Design
- COM 6940: Supervised Teaching
- FIL 6061: History of Documentary Film I
- FIL 6062: History of Documentary Film II
- FIL 6101: Advanced Radio, Television, and Film Writing
- FIL 6315: Writing for Documentary I
- FIL 6317: Producing and Writing the Documentary
- FIL 6335: Business of Documentary
- FIL 6340: Issues and Problems in Documentary
- FIL 6365: Documentary Pre-Production Planning
- FIL 6366: Documentary Procedures II
- FIL 6377: Documentary Field Production
- FIL 6378: Documentary Research Methods
- FIL 6380: Advanced Post-Production Techniques
- JOU 5007: History of Journalism
- JOU 5705: Issues and the Press
- JOU 6102: Reporting Workshop
- JOU 6114: Journalist Bootcamp
- JOU 6309: Seminar in Journalism as Literature
- JOU 6344: Journalist Toolkit 1
- JOU 6349: Journalist Toolkit 2
- JOU 6502: Newsroom Management
- MMC 5005: Mass Communication History
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- MMC 6202: Legal Problems of Mass Communication
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- MMC 6307: Seminar in International Communication
- MMC 6400: Mass Communication Theory
- MMC 6402: Seminar in Mass Communication Theory
- MMC 6405: Seminar in Mass Communication and Public Opinion

- MMC 6409: Science/Health Communication
- MMC 6417: Seminar in Mass Media and Health
- MMC 6421: Research Methods in Mass Communication
- MMC 6423: Content-Analysis Methods
- MMC 6426: Seminar in Qualitative Research
- MMC 6428: Collaborative Communication Research
- MMC 6429: News and Numbers
- MMC 6560: Seminar in History of Mass Communication
- MMC 6612: New Media and a Democratic Society
- MMC 6615: Race, Class, Gender, and Media
- MMC 6618: Survey of Political Communication
- MMC 6619: Seminar in Political Advertising
- MMC 6660: Mass Communication and Society
- MMC 6665: Seminar in First Amendment Theory
- MMC 6666: Seminar in Research in Mass Communication Law
- MMC 6667: Seminar in Advanced Topics in Mass Communication Law
- MMC 6668: Seminar in Public Policy Toward Mass Media
- MMC 6706: Covering the Arts
- MMC 6725: Social Media and Society
- MMC 6726: Social Media and Virtual Worlds
- MMC 6727: Social Media Metrics
- MMC 6728: Branding Using Social and Mobile Media
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- MMC 6936: Special Topics in Mass Communication
- MMC 6949: Professional Internship
- MMC 6951: Masters Project Seminar
- MMC 6971: Research for Master's Thesis
- MMC 6973: Project in Lieu of Thesis
- MMC 7979: Advanced Research
- MMC 7980: Research for Doctoral Dissertation
- PUR 5507: Persuasion Theory and Research
- PUR 6005: Theories of Public Relations
- PUR 6006: Public Relations Foundations
- PUR 6403: Crisis and Risk Management
- PUR 6416: Public Relations and Fund Raising
- PUR 6446: Public Relations and Philanthropy
- PUR 6506: Public Relations Research
- PUR 6607: Public Relations Management
- PUR 6608: International Public Relations
- PUR 6934: Problems in Public Relations
- RTV 5702: Telecommunication Regulation
- RTV 6105: Writing for Electronic Media
- RTV 6309: Advanced TV Reporting
- RTV 6508: Audience Analysis
- RTV 6801: Telecommunication Management
- RTV 6807: Telecommunication Outlet Systems and Practices
- RTV 6973: Project in Lieu of Thesis
- VIC 5315: Corporate and Brand Identity on the Web
- VIC 5325: Digital Imagery in Web Design
- VIC 5326: Digital Media Layout and Design
- VIC 6316: Brand Management

Fredric G. Levin College of Law

Dean: R. Jerry II

Complete faculty listings: [Follow this link.](#)

The University of Florida Levin College of Law has a longstanding tradition of producing national leaders, including current American Bar Association President Stephen Zack, and is one of the nation's best values in legal education.

For more information, please see our website: <http://www.law.ufl.edu>

[Departments and Programs within Levin College of Law](#)

[Levin College of Law Courses](#)

Comparative Law Department

Director and Graduate Coordinator: P.A. Malavet.

Complete faculty listing by department: [Follow this link.](#)

The LL.M. in Comparative Law degree is designed for graduates of foreign law schools who want to enhance their understanding of the American legal system and the English common law system from which it evolved. Requirements for this degree are given in the *General Information* section of this catalog.

The program begins with Introduction to American Law, a 4-credit summer course that gives students a foundation in the American legal process. It also helps students acclimate to the College of Law and the University community before to the start of the academic year. During the fall and spring terms, and with the director's approval, students choose their remaining 22 credits from more than 100 Juris Doctor and LL.M. in Taxation courses and seminars. For admission information consult the *College of Law Prospectus* or write to the Comparative Law

Office P.O. Box 117643, University of Florida, Gainesville, FL 32611-7643 USA.

Other

Comparative Law

College

[Fredric G. Levin College of Law](#)

Department/School

[Comparative Law Department](#)

Degrees Offered with a Major in Comparative Law

Master of Laws in Comparative Law

without a concentration

concentration in Tropical Conservation and Development

Courses

- LAW 7801: Introduction to the Legal System of the United States for LL.M in Comparative Law, Part II
- LAW 7805: Legal Writing and Research for LL.M. in Comparative Law
- LAW 7906: Directed Research for LL.M. in Comparative Law
- LAW 7932: Introduction to the Legal System of the United States for LL.M in Comparative Law, Part I

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research

- LAW 7931: Current Federal Tax Problems

Environmental and Land Use Law Department

Director and Graduate Coordinator: Christine A. Klein

Complete faculty listing by department: [Follow this link.](#)

Florida's sensitive, varied and beautiful natural environment makes the University of Florida a natural choice for students who want to focus on the national and global issues of land use and environmental law. Florida provides a perfect setting to study first-hand the efforts to reconcile growth and conservation.

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

For more information, please see the program page below and our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>.

Other

Environmental and Land Use Law

College

[Fredric G. Levin College of Law](#)

Department/School

[Environmental and Land Use Law Department](#)

Environmental and Land Use Law Program Information

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

Students admitted to the program work with the LL.M. Program Director to design an individual course of study tailored to their particular interests. In addition to a broad range of academic courses, UF Law offers a wealth of environmental skills and field courses such as the Conservation Clinic, Environmental Dispute Resolution and Wetlands & Watersheds. LL.M. students may also apply for a seat in the spring break field course (previous offerings have included Sustainable Development in Belize, Central America, and Ocean and Coastal Law in Marineland, Florida); the South Florida Everglades field course offered in May (course availability varies) and the Summer Environmental Law Study Abroad Program in Costa Rica.

The program also capitalizes on the many outstanding programs at the University of Florida in disciplines related to environmental and land use law practice, including wildlife ecology, environmental engineering, urban and regional planning, and interdisciplinary ecology. The UF LL.M. program is unique in requiring that 6 of the 26 required credit hours must be from relevant graduate level courses that have substantial non-law content and are offered outside the law school or jointly by the law school and another department. In addition to completing required coursework, LL.M. candidates must complete a written project in connection with a seminar or the Conservation Clinic.

Six credit hours of coursework in graduate-level courses listed outside the law school or jointly listed by the law school and another graduate department and approved by the LL.M. Program Director are required. For elective courses, please visit <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law/degree-requirements>.

For more information about the Environmental and Land Use Law Program, please see our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>, or contact:

University of Florida
Levin College of Law
P.O. Box 117625
Gainesville, FL 32611-7625
Phone: 352-273-0777
Email: elulp@law.ufl.edu

Degrees Offered with a Major in Environmental and Land Use Law

Master of Laws in Environmental and Land Use Law

Courses

- LAW 7493: LL.M. Research: Selected Topics in Environmental & Land Use Law
- LAW 7916: Research Methods and Environmental Land Use Law

Taxation Department

Chair and Graduate Coordinator: M. K. Friel.

Complete faculty listing by department: [Follow this link.](#)

Graduate study in the field of taxation leading to the Master of Laws in Taxation degree or to the Master of Laws in International Tax degree is available in the College of Law.

Applicants for admission to the Graduate School for these degrees must hold a law degree from an accredited law school or in the case of international students, from a recognized foreign university but need not submit scores on the Graduate Record Examination. For further information concerning admission consult the *Graduate Tax Program Catalog*, or write the Tax Office, 320 Holland Law Center.

Other

International Taxation

College

[Fredric G. Levin College of Law](#)

Department/School

[Taxation Department](#)

Degrees Offered with a Major in International Taxation

Master of Laws in International Taxation

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

Taxation

College

[Fredric G. Levin College of Law](#)

Department/School

[Taxation Department](#)

Degrees Offered with a Major in Taxation

Master of Laws in Taxation

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

College of Liberal Arts and Sciences

Interim Dean: David Richardson

Complete faculty listings: [Follow this link](#).

The College of Liberal Arts and Sciences constitutes the intellectual core of the university. Its principal mission is to lead the academic quest to understand our place in the universe, and to help shape our society and environment.

For more information, please see our website: <http://www.clas.ufl.edu>

[Departments and Programs within the College of Liberal Arts and Sciences](#)

[College of Liberal Arts and Sciences Courses](#)

Other

Genetics and Genomics

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Medicine](#)

Genetics and Genomics Program

Chair: C. Mulligan

Graduate Coordinator: J. Bungert

Complete faculty listing: [Follow this link](#)

or visit media.news.health.ufl.edu/misc/mgm/UFGI/search/members-list4.php

The University of Florida Genetics Institute is a multi-college, multi-faceted research center. Good geneticists are integrative geneticists, who incorporate many different subfields of genetics into their work. The core mission is to improve the quality of life of people throughout the world via integrative, genetics-based research. Accordingly, faculty interests and graduate research opportunities include a wide range of areas from advances in gene therapy to understanding the maintenance of genetic variation, from understanding plant immune responses to developing improved algorithms for identifying regulatory motifs in DNA sequences, and from the challenges of bioethics to strategies for controlling malaria.

The highlight of the first year core training is the research rotations program. Student laboratory rotations are a particularly exciting feature of the genetics and genomics doctoral program, and epitomize the philosophy that good geneticists are broadly trained and integrative. Many current Graduate Faculty members still vividly recall the transforming effects of their rotations during graduate school—they didn't always end up where they expected! Rotations can open students' eyes to areas of genetics that they had never considered and entice them into considering brand new career opportunities. Each student will sample the breadth and depth of genetics research at UF by carrying out three 8-week modules consisting of design, implementation, and analysis of genetics experiments. Each rotation is conducted in close association with a Graduate Faculty member. To ensure that students fully experience the impressive breadth of genetics research at UF, their rotations are hosted by Graduate Faculty in at least two different colleges. Students will also take [PCB 5065](#), Advanced Genetics; [GMS 6181](#), Special Topics in Microbiology (among the topics are genomics and bioinformatics, and ethics for genetics research); [STA 6166](#), Statistical Methods I; and other electives as desired. In addition, throughout their tenure in the program, students participate in the Genetics Seminar, which is an opportunity to present their rotation plans and results of research to faculty and other students.

Prospective students should have strong backgrounds in biology and other hard sciences. Exceptional students with other backgrounds will also be considered. The research statement required as part of the application has a particularly important part in the admissions decision. Each applicant must describe his/her research interests, so that Graduate Faculty can evaluate knowledge of the discipline, fit to the program, and ability to articulate and motivate an interesting research problem. The required letters of recommendation are also extremely important in helping identify applicants with exceptional aptitude for genetics, and with research experience and promise.

For more information, write to the Genetics and Genomics Graduate Program, Attn: Graduate Secretary, Genetics Institute, University of Florida, PO Box 100196, Gainesville, FL 32610-0196.

Expanded information can be found at <http://www.ufgi.ufl.edu>.

Degrees Offered with a Major in Genetics and Genomics

Doctor of Philosophy

Doctor of Philosophy - Clinical and Translational Science

Courses

- AGR 6322: Advanced Plant Breeding
- ANG 6532: Molecular Genetics of Disease
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 7410: Advanced Gene Regulation
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5805: Computer Simulation Concepts
- CIS 6930: Special Topics in CIS
- COT 5405: Analysis of Algorithms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6920: Genetics Journal Colloquy
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- HOS 6201: Breeding Perennial Cultivars
- PCB 5065: Advanced Genetics
- PCB 5235L: Experiments in Immunology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6178: Genetic Data Analysis
- STA 6208: Basic Design and Analysis of Experiments
- STA 6329: Matrix Algebra and Statistical Computing

- STA 6934: Special Topics in Statistics
- STA 7979: Advanced Research
- STA 7980: Research for Doctoral Dissertation
- ZOO 6927: Special Topics in Zoology
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation

- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

Anthropology Department

Chair: S. deFrance

Graduate Coordinator: P. Collings

Complete faculty listing by department: [Follow this link.](#)

The Anthropology Department takes pride in maintaining a holistic perspective, bridging the four traditional fields that have composed the discipline: sociocultural, archaeological, biological, and linguistic anthropology. Both graduate students and faculty conduct research that cut across the four-fields, and extend anthropological investigations into other disciplines.

The graduate program is a mentoring program emphasizing the PhD degree. Students are mentored by faculty advisors, together with supervisory committees chosen by students with the advice of advisors. Graduate students are expected to be in residence to attend classes and seminars, and receive individualized training. Distance-education graduate degrees are not offered. Students formally report on their progress each year, and the progress of each graduate student is evaluated by the faculty in their primary field.

Students receiving graduate degrees are well-prepared intellectually and professionally for success in a wide variety of careers, and become leaders in developing the next generation of anthropology. The department offers teaching experience and resources for presenting conference papers, submitting grant proposals, conducting fieldwork, and other activities appropriate to their professionalization. Graduate students are welcome to contribute to discussions in departmental meetings, and serve on some departmental committees.

Other

Anthropology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Anthropology Department](#)

Anthropology Program

The department of Anthropology offers graduate work leading to the Master of Arts (thesis or nonthesis option) and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog. For more information, visit the departmental website: <http://anthro.ufl.edu>. Graduate training is offered in cultural anthropology, archeology, and biological anthropology.

Each graduate student should specify a major field of study among the four fields of anthropology. In addition, each must choose one of three tracks: the specialized track in which a student focuses on one field of anthropology, the multifield track in which a student combines two fields, or the interdisciplinary track in which a student adds study in a second discipline to anthropology. Knowledge of a foreign language or of statistics may be required by the student's supervisory committee.

The department generally requires applicants to have acceptable scores on the GRE (verbal and quantitative portions) and a 3.2 overall grade point average based on a 4.0 system. Previous work in anthropology is an asset but not a strict requirement for admission. Potential applicants are urged to visit the website to familiarize themselves with the specializations of our faculty and to indicate in their application those faculty with whom they might work. Barring special circumstances, the Department restricts admission to applicants interested in earning a Ph.D. Entering students who have earned a master's degree may apply for direct admission to the doctoral program. Students who enter without an M.A. will generally work for their M.A. on the way to the Ph.D. This requires either a formally-defended thesis or written comprehensive exams combined with a high-quality paper or research report. With their adviser's permission, they may opt to bypass the M.A.

Students enrolled in the M.A. program who wish to continue their studies for a Ph.D. must apply to the Department for certification.

New students are admitted into the graduate program only in the fall of each academic year. The deadline for receiving completed applications for admission into the graduate program is December 15, though the department encourages early applications.

Degrees Offered with a Major in Anthropology

Doctor of Philosophy

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

Master of Arts in Teaching

without a concentration

concentration in Tropical Conservation and Development

Courses

- ANG 5012: Fantastic Anthropology and Fringe Science
- ANG 5085: Collection and Analysis of Visual Data in Anthropology
- ANG 5126: Zooarcheology
- ANG 5158: Florida Archeology
- ANG 5162: Maya Archeoastronomy and Ethnoastronomy
- ANG 5164: The Inca and Their Ancestors
- ANG 5172: Historical Archeology
- ANG 5194: Principles of Archeology
- ANG 5255: Rural Peoples in the Modern World
- ANG 5265: Methods in Ethnoecology
- ANG 5266: Economic Anthropology
- ANG 5303: Women and Development
- ANG 5310: The North American Indian
- ANG 5323: Peoples of Mexico and Central America
- ANG 5327: Maya and Aztec Civilizations
- ANG 5330: The Tribal Peoples of Lowland South America
- ANG 5331: Peoples of the Andes
- ANG 5336: The Peoples of Brazil
- ANG 5341: Anthropology of the Caribbean
- ANG 5352: Peoples of Africa
- ANG 5354: Anthropology of Modern Africa
- ANG 5395: Visual Anthropology
- ANG 5420: Social Network Analysis in Cultural Anthropology
- ANG 5426: Kinship and Social Organization
- ANG 5464: Culture and Aging
- ANG 5485: Research Design in Anthropology
- ANG 5486: Computing for Anthropologists
- ANG 5488: Geospatial Analysis in Cultural Anthropology
- ANG 5525: Human Osteology and Osteometry
- ANG 5531: Culture and Nutrition
- ANG 5546: Seminar: Human Biology and Behavior
- ANG 5620: Language and Culture
- ANG 5621: Proseminar in Cultural and Linguistic Anthropology
- ANG 5700: Applied Anthropology
- ANG 5702: Anthropology and Development
- ANG 5711: Culture and International Business
- ANG 5743: Human Rights Missions in Forensic Anthropology
- ANG 5744: International Forensic Fieldwork in Human Rights
- ANG 5824L: Field Sessions in Archeology

- ANG 6034: Seminar in Anthropological History and Theory
- ANG 6086: Historical Ecology
- ANG 6091: Research Strategies in Anthropology
- ANG 6110: Archaeological Theory
- ANG 6112: Critical Archaeology of Time
- ANG 6113: Ideology and Symbolic Approaches in Archaeology
- ANG 6120C: Environmental Archaeology
- ANG 6122C: Archaeological Ceramics
- ANG 6128: Lithic Technology
- ANG 6146: Archaeology of Maritime Adaptations
- ANG 6155: Southeastern U.S. Prehistory
- ANG 6161: Problems in Caribbean Prehistory
- ANG 6165: Problems in South American Archaeology
- ANG 6183: Laboratory Training in Archeology
- ANG 6185: Ethnoarchaeology
- ANG 6186: Seminar in Archeology
- ANG 6187: Experimental Archaeology
- ANG 6190: Seminar in Contemporary Methods
- ANG 6191: Archaeology of Death
- ANG 6224: Painted Books of Ancient Mexico: Codices of Aztecs, Mixtecs, and Mayas
- ANG 6241: Special Topics in Ecology of Religion
- ANG 6267: Anthropology, Geographic Information System, and Human Ecosystems
- ANG 6273: Legal Anthropology
- ANG 6274: Principles of Political Anthropology
- ANG 6286: Seminar in Contemporary Theory
- ANG 6304: Seminar in Gender and International Development
- ANG 6314: Peoples of the Arctic
- ANG 6351: Peoples and Culture in Southern Africa
- ANG 6360: Ethnicity in China
- ANG 6366: Family, Gender, and Population in China
- ANG 6407: Sickness and Power
- ANG 6421: Landscape, Place, Dwelling
- ANG 6452: Race and Racism in Anthropological Theory
- ANG 6453: Human Rights in Cross-Cultural Perspective
- ANG 6478: Evolution of Culture
- ANG 6481: Research Methods in Cognitive Anthropology
- ANG 6483L: Anthropology of Science
- ANG 6511: Seminar in Physical Anthropology
- ANG 6514: Human Origins
- ANG 6524: Skeletal Mechanics in Biological Anthropology
- ANG 6532: Molecular Genetics of Disease
- ANG 6547: Human Adaptation
- ANG 6552: Primate Behavior
- ANG 6553: Primate Cognition
- ANG 6555: Issues in Evolutionary Anthropology
- ANG 6583: Primate Functional Morphology
- ANG 6591L: Advanced Molecular Anthropology Laboratory
- ANG 6592: Seminar in Molecular Anthropology
- ANG 6593L: Biological Anthropology Laboratory
- ANG 6701: Seminar on Applied Anthropology
- ANG 6737: Medical Anthropology
- ANG 6740: Advanced Techniques in Forensic Anthropology
- ANG 6801: Ethnographic Field Methods
- ANG 6905: Individual Work
- ANG 6910: Supervised Research
- ANG 6915: Research Projects in Social, Cultural, and Applied Anthropology
- ANG 6917: Professions of Anthropology
- ANG 6930: Special Topics in Anthropology
- ANG 6940: Supervised Teaching
- ANG 6945: Internship in Anthropology
- ANG 6971: Research for Master's Thesis
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation

Astronomy Department

Chair: C. Telesco

Graduate Coordinator: V. Sarajedini.

Complete faculty listing by department: [Follow this link.](#)

The University of Florida's Astronomy Department is one of the largest in the country. Research is an integral part of the graduate program. Students have opportunities to work with faculty and staff on a broad range of astronomical problems using in-house, national and international, and ground- and space-based facilities. Support for graduate studies is available through fellowships, research assistantships, and teaching assistantships. For more information on the program, please follow the link below or visit [our website](#).

Other

Astronomy

College

[College of Liberal Arts and Sciences](#)

Department/School

[Astronomy Department](#)

Astronomy Program Information

The Astronomy Department offers graduate programs leading to the M.S., M.S.T. or Ph.D. degrees in astronomy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Planetary Systems: Observational and theoretical studies concentrate in the areas of planet formation, the dynamical evolution of planetary systems and the detection and characterization of extrasolar planets. Members of the department are active in Kepler Mission and ground-based Dopple surveys to identify extrasolar planets. Researchers are also active in studying the origins and orbital evolution of interplanetary dust and small bodies in the solar system and around nearby stars.

Stellar populations: Observational studies concentrate on resolved stars in the Milky Way and nearby galaxies. Studies of particular classes of stars include various types of binary stars and blue stragglers. The goal of these studies is to apply our theoretical understanding of stellar structure and evolution to the properties of stars in a variety of environments.

Origins of stars and planets: Observational studies focus on the properties of giant molecular clouds, the collapse of molecular cloud cores, the formation of stars in clusters and in isolation, and the formation and evolution of circumstellar and protoplanetary disks. The department is active in several star formation surveys, involving many international ground- and space-based facilities. Theoretical studies emphasize the development of analytic models and numerical simulations, as well as their testing against observational constraints.

Structure and evolution of galaxies: Observational programs use multi-wavelength photometry of stars and star clusters in galaxies throughout the Local Group and in nearby groups, including the Milky Way, to study galaxy evolution. Other observations focus on the structure and dynamics of galaxies and their interstellar medium using neutral hydrogen (HI) and molecules such as carbon monoxide.

Extragalactic astronomy and cosmology: Observational programs investigate the nature of ultra-luminous galaxies, active galactic nuclei (AGNs), and the formation and chemical evolution of distant galaxies and clusters of galaxies. Theoretical investigations focus on the emission/absorption features in AGN spectra, the star-formation and chemical-evolution properties of galaxies, and applications of general relativity and particle physics to conditions in the very early universe.

Instrumentation programs: The UF Infrared Astrophysics Laboratory is a world leader in designing and constructing advanced near-infrared and mid-infrared instrumentation for major telescopes around the world, including the 8m Gemini North and South Telescopes and the 10m Gran Telescopio Canarias. Instrumentation is also developed in the area of high precision Doppler techniques for planet searches and the development of high contrast imaging techniques for direct imaging of extrasolar planets.

Computing facilities: The Astronomy Department maintains a network of high-performance computers running Linux and OS-X. The local network is maintained by a full-time systems manager. Astronomy students have access to supercomputing facilities maintained by the UF High Performance Computing Center, including thousands of CPU cores with high-performance networking.

Degrees Offered with a Major in Astronomy

Doctor of Philosophy

Master of Science

Master of Science in Teaching

Courses

- AST 5113: Solar System Astrophysics I
- AST 5114: Solar System Astrophysics II

- AST 6112: Solar System Astrophysics
- AST 6215: Stellar Structure and Function
- AST 6245: Stellar Atmospheres and Radiative Processes
- AST 6309: Galactic and Extragalactic Astronomy
- AST 6336: Interstellar Matter
- AST 6415: Observational Cosmology
- AST 6416: Physical Cosmology
- AST 6506: Celestial Mechanics
- AST 6725C: Observational Techniques
- AST 6905: Individual Work
- AST 6910: Supervised Research
- AST 6925: Departmental Colloquium
- AST 6935: Frontiers in Astronomy
- AST 6936: Astronomy Journal Club
- AST 6971: Research for Master's Thesis
- AST 7939: Special Topics
- AST 7979: Advanced Research
- AST 7980: Research for Doctoral Dissertation

Biology Department

[College of Liberal Arts and Sciences](#)

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

Complete faculty listing by department: [Follow this link.](#)

The Department of Biology offers two graduate programs: Botany and Zoology. Both programs offer graduate work leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

More information regarding these programs is available by following the links below and by visiting our departmental website: <http://www.biology.ufl.edu>.

Other

Botany

College

[College of Liberal Arts and Sciences](#)

Department/School

[Biology Department](#)

Botany Program Information

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

The Department of Biology offers graduate work in Botany leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Department offers studies in the areas of biochemistry, molecular biology, cell biology, physiology, ecology, systematics, and evolution. Specific areas of specialization include anatomy/morphology with emphasis on extant and fossil vascular plants; ecology and environmental studies including ecosystem ecology, conservation biology and genetics, fire ecology, exotic invasive species, and tropical botany and ecology; cell biology with emphasis on the cytoskeleton and cell morphogenesis; physiology, biochemistry, and molecular biology with emphasis on photosynthesis, growth and development of angiosperms, protein phosphorylation and signal transduction, global analysis of spatial patterns of gene expression; plant secondary metabolism and proteomics; systematics with emphasis on DNA- and morphology-based phylogenetic analyses, phylogeographic studies, molecular evolution/development, and monographic and floristic studies. To be considered for admission to graduate studies, students should have:

- The equivalent of an undergraduate degree in botany or biology with basic course work in their area of interest
- Acceptable GRE scores (verbal, quantitative, and analytical writing)
- Letters of recommendation
- International students must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program. The program of graduate study for each student will be determined by a supervisory committee, and deficiencies in background coursework will be made up early in the graduate program. No more than 9 credits of BOT 6905 may be used to satisfy the credit requirements for a master's degree.

Degrees Offered with a Major in Botany

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida

- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Zoology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Biology Department](#)

Zoology Program Info

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

The Department of Biology offers graduate programs in Zoology leading to the Master of Science in Teaching, Master of Science, and Doctor of Philosophy degrees. The requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog.

Our program emphasizes Integrative Biology, with integration accomplished through a focus on the theoretical foundations provided by evolutionary biology and ecology. Our faculty has expertise in ecology, evolution, behavior, comparative and environmental physiology, genetics, development, and phylogenetics. We work in a variety of terrestrial and aquatic environments and geographic regions (tropics through subpolar), and on a range of organisms (including plants). Our faculty value integrative research (e.g., by crossing levels of organization from gene expressions to species interactions), linking theory with data (through use of statistical and mathematical tools), and using natural history to guide the development and testing of rigorous conceptual frameworks. Many of our faculty also are interested in applying and testing basic science in applied contexts (e.g., conservation biology and ecotoxicology).

Our approach is highlighted through our first-year, required, graduate course, Integrative Principles. Each student's supervisory committee will recommend additional courses according to the academic background and research plans of the student.

Degrees Offered with a Major in Zoology

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Zoology Courses

- BOT 6726C: Principles of Systematic Biology
- PCB 5307C: Limnology
- PCB 5415C: Behavioral Ecology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6049: Seminar in Ecology
- PCB 6377C: Physiological Ecology of Vertebrates
- PCB 6447C: Community Ecology
- PCB 6675C: Evolutionary Biogeography
- PCB 6695: Seminar in Evolutionary Biology
- ZOO 5115C: Vertebrate Paleontology
- ZOO 5486C: Mammalogy
- ZOO 6005: Integrative Principles of Zoology I
- ZOO 6308: Dynamic Optimization Modeling in Behavioral and Evolutionary Ecology
- ZOO 6406: Biology of Sea Turtles
- ZOO 6456C: Ichthyology
- ZOO 6542: Nutritional Ecology
- ZOO 6905: Individual Studies
- ZOO 6910: Supervised Research
- ZOO 6920: Zoology Colloquium
- ZOO 6927: Special Topics in Zoology
- ZOO 6931: Seminar in Marine Turtle Biology
- ZOO 6939: Seminar in Animal Behavior
- ZOO 6971: Research for Master's Thesis

- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

Chemistry Department

Chair: W. Dolbier

Graduate Coordinator: B. W. Smith

Complete faculty listing: [Follow this link.](#)

The Department of Chemistry granted its first master's degree in 1909 and the first Ph.D. in 1930. Specializations in biochemistry, organic, physical, inorganic and analytical are offered with extensive interdisciplinary research opportunities (e.g., bio/nano-science, particle science, green chemistry, polymer chemistry, chemical physics, health related biochemistry, chemistry-engineering, and genomics).

The Department presently offers the Master of Science and Doctor of Philosophy degrees with a major in chemistry. The non-thesis Master of Science in Teaching degree is also offered with a major in chemistry.

Other

Chemistry

College

[College of Liberal Arts and Sciences](#)

Department/School

[Chemistry Department](#)

Chemistry Program

The department offers the Master of Science (thesis or nonthesis) and Doctor of Philosophy degrees with a major in chemistry and specialization in biochemistry, analytical, organic, inorganic, or physical chemistry. The nonthesis degree Master of Science in Teaching is also offered with a major in chemistry. New graduate students should have adequate undergraduate training in inorganic, analytical, organic, and physical chemistry. Normally this will include as a minimum a year of general chemistry, one semester of quantitative analysis, one year of organic chemistry, one year of physical chemistry, and one semester of advanced inorganic chemistry. Additional courses in instrumental analysis, biochemistry, and advanced physical and organic chemistry are desirable. Deficiencies in any of these areas may be corrected during the first year of graduate study. Such deficiencies are determined by a series of placement tests given prior to registration, and the results of these tests are used in planning the student's program. Doctoral candidates are required to complete at least 9 semester credits of courses specified by the division of the Chemistry Department in which they choose to specialize, as well as at least 9 semester credits of out-of-major-division courses. There are some minor restrictions on courses that may be used to meet this requirement. Additional courses may be required by the student's supervisory committee or major professor.

Ph.D. candidates must serve not less than one year as teaching assistants. This requirement will be waived only when, in the opinion of the department, unusual circumstances justify such action. A chemical physics option is offered for students who will be doing research in areas of physical chemistry which require a strong background in physics. For this option, a student meets the departmental requirements for concentration in physical chemistry, except that only one out-of-major division course is required. In addition, a minimum of 14 credits in 4000 level or higher physics courses or a minimum of 7 such credits in physics and 7 in 4000 level or higher mathematics courses is required. Candidates for the master's degree are required to complete any two core courses. The Master of Science degree in chemistry has both thesis and nonthesis options. The nonthesis degree Master of Science in Teaching is offered with a major in chemistry and requires a written paper of substantial length (30 to 50 pages) on an approved topic pertaining to some phase of chemistry, under the course [CHM 6905](#).

Degrees Offered with a Major in Chemistry

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Imaging Science and Technology

Master of Science

Master of Science in Teaching

Courses

- CHM5224: Basic Principles for Organic Chemistry
- CHM5235: Organic Spectroscopy
- CHM5275: The Organic Chemistry of Polymers
- CHM5305: Chemistry of Biological Molecules
- CHM5413L: Advanced Physical Chemistry Laboratory
- CHM5511: Physical Chemistry of Polymers
- CHM6036: Chemical Biology
- CHM6037: Chemical Biology and Biochemistry Seminar
- CHM6153: Electrochemical Processes
- CHM6154: Chemical Separations
- CHM6155: Spectrochemical Methods
- CHM6158C: Electronics and Instrumentation
- CHM6159: Mass Spectrometric Methods
- CHM6165: Chemometrics
- CHM6180: Special Topics in Analytical Chemistry
- CHM6190: Analytical Chemistry Seminar
- CHM6225: Advanced Principles of Organic Chemistry
- CHM6226: Advanced Synthetic Organic Chemistry
- CHM6227: Topics in Synthetic Organic Chemistry
- CHM6251: Organometallic Compounds
- CHM6271: The Chemistry of High Polymers
- CHM6301: Enzyme Mechanisms
- CHM6302: Chemistry and Biology of Nucleic Acids
- CHM6303: Methods in Computational Biochemistry and Structural Biology
- CHM6306: Special Topics in Biological Chemistry Mechanisms
- CHM6381: Special Topics in Organic Chemistry
- CHM6390: Organic Chemistry Seminar Presentation
- CHM6391: Organic Chemistry Seminar Discussion
- CHM6430: Chemical Thermodynamics
- CHM6461: Statistical Thermodynamics
- CHM6470: Chemical Bonding and Spectra I
- CHM6471: Chemical Bonding and Spectra II
- CHM6480: Elements of Quantum Chemistry
- CHM6490: Theory of Molecular Spectroscopy
- CHM6520: Chemical Physics
- CHM6580: Special Topics in Physical Chemistry
- CHM6586: Computational Chemistry
- CHM6590: Physical Chemistry Seminar
- CHM6620: Advanced Inorganic Chemistry I
- CHM6621: Advanced Inorganic Chemistry II
- CHM6626: Applications of Physical Methods in Inorganic Chemistry
- CHM6628: Chemistry of Solid Materials
- CHM6670: Inorganic Biochemistry
- CHM6680: Special Topics in Inorganic Chemistry
- CHM6690: Inorganic Chemistry Seminar
- CHM6720: Chemical Dynamics
- CHM6905: Individual Problems, Advanced
- CHM6910: Supervised Research
- CHM6934: Advanced Topics in Chemistry
- CHM6935: Chemistry Colloquium
- CHM6943: Internship in College Teaching
- CHM6971: Research for Master's Thesis
- CHM7485: Special Topics in Theory of Atomic and Molecular Structure
- CHM7979: Advanced Research
- CHM7980: Research for Doctoral Dissertation
- CHS 5110L: Radiochemistry Laboratory

Classics Department

Chair: Victoria Pagin.

Graduate Coordinator: Jennifer Rea.

Complete faculty listing: [Follow this link.](#)

The department offers the following degrees and programs: the Doctor of Philosophy in classical studies; the Master of Arts degree in classical studies or Latin; the Master of Latin degree, and the Master of Arts in Teaching degree in Latin. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog

Within the Ph.D. program are three tracks:

- Philology (prepares students for careers in colleges and universities)
- Classical civilization (available via distance course work)
- Latin and Roman studies (available via distance course work).

Requirements for the philology track of the doctoral degree include:

- 60 credit hours after the M.A. (or a total of 90 credit hours)
- Five additional seminars after the M.A. in classics at the 500 level or higher
- Three of the following seminars: [GRE 6425](#), [GRW 6105](#), [LAT 6425](#), [LNW 6105](#), and [CLA 6805](#)
- A reading knowledge of two modern languages, one of which must be German
- Reading lists in Greek and Roman authors
- Supervised experience in teaching Latin, Greek, or civilization courses is advised
- Successful completion of a series of qualifying examinations appropriate to the chosen specialization (Greek reading Latin reading classical Greek literature in its historical context; classical Latin literature in its historical context; special author/topic)
- An oral preliminary examination, dissertation, and final examination

The M.A. degree in classical studies is recommended for students who plan to continue on to the doctoral level. The M.A. degree in Latin is recommended for students who plan to pursue a career in secondary teaching. Both M.A. programs require 30 credit hours, including 6 credits of [GRW 6971](#) or [LNW 6971](#), a thesis, and final examination.

The Master of Latin degree is a non-thesis degree, designed for currently employed and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of classics, and enhance their professional qualifications through a program of summer course work and directed independent study and/or distance learning courses during the regular academic year. The Master of Arts in Teaching, a non-thesis degree, is offered with a program in Latin and is intended for students preparing to teach in community colleges or high schools.

Other

Classical Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Classics Department](#)

Classical Studies Program Information

(The following information refers only to our on-campus programs. Please visit the [Distance Learning Homepage](#) for further details on our Distance Learning programs, especially aimed at elementary, secondary, or community college teachers.)

Ph.D. in Classical Studies

The Ph.D. program in classical studies is a traditional course of study in Greek and Latin language and literature that prepares students for careers in research and teaching at colleges and universities. Students awarded a TA position receive a stipend plus a full tuition waiver. The University also offers competitive fellowships. The department routinely provides research fellowships for its Ph.D. candidates. Department awards are also available for study abroad opportunities. Students are expected to become Florida residents after one year.

M.A. in Classical Studies

The Department of Classics at the University of Florida offers an M.A. degree in Classical Studies. Students awarded a TA position receive a stipend plus a full tuition waiver. Students are expected to become Florida residents after one year.

The **Master of Arts in Classical Studies** is recommended for students who plan to continue their studies at the doctoral level

For minimum degree requirements, see the [Graduate Degrees](#) section of the catalog. For additional requirements, please see the department website: <http://classics.ufl.edu>.

Admissions Requirements to the Classical Studies Programs:

Admission into the university and the program for Classics is ultimately determined and granted according to the rules established by the Graduate School of the University of Florida (see the Graduate Catalog).

Submission of Graduate Record Examination (GRE) scores, with a minimum score of 1000 (combined verbal and quantitative). Competitive applicants for funding awards from the department typically have a combined score of at least 1200.

Ph.D. program (Level II) requirements include:

1. M.A. in Classics or the equivalent.
2. A GPA of at least 3.25 in previous graduate work, and an undergraduate average of at least 3.0.
3. Demonstrated reading knowledge of German, French, Italian or Modern Greek (competency in the second language to be demonstrated before the completion of the second year at Level II).
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the applicant's record gives evidence of the capacity to undertake and complete guided independent reading and research at the doctoral level.

Master's program (Level I) requirements include:

1. Extensive study of Greek and Latin, with at least three years of coursework in one language and at least two years in the other language.
2. At least six hours in one or more of the following: ancient history, ancient art, archaeology, philosophy, literary criticism, linguistics.
3. A GPA of at least a 3.0.
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the record shows promise on other grounds.

Degrees Offered with a Major in Classical Studies

Doctor of Philosophy

Master of Arts

Classics Departmental Courses

- CLA6125: Augustan Age
- CLA6515: Roman Dynasty: Nero and the Julio-Claudians
- CLA6795: Greek and Roman Archeology
- CLA6805: The Classical Research Tradition
- CLA6885: Roman Law and Society
- CLA6895: Athenian Law and Society
- CLA6905: Individual Work
- CLA6930: Greece and the Near East
- CLT 6295: Greek Drama in Translation
- GRE 6425: Greek Prose Composition
- GRE 6755: Epigraphy
- GRK 6905: Individual Work in Modern Greek
- GRW6105: The Greek Tradition
- GRW6216: Greek Novel
- GRW6316: Greek Tragedy
- GRW6317: Ancient Greek Comedy
- GRW6345: Greek Lyric Poetry
- GRW6346: Pindar
- GRW6347: Homer
- GRW6386: Greek Historians
- GRW6506: Plato
- GRW6705: Attic Orators
- GRW6905: Individual Work
- GRW6930: Special Topics in Greek Literature
- GRW6931: Comparative Study of Greek and Latin Literature
- GRW6971: Research for Master's Thesis
- GRW7979: Advanced Research
- GRW7980: Research for Doctoral Dissertation
- LAT 6425: Latin Prose Composition
- LNW5325: Roman Elegiac Poetry
- LNW5655: Roman Poets: Horace
- LNW5665: Roman Poets: Vergil
- LNW5675: Roman Poets: Ovid
- LNW5931: Comparative Study of Latin and Greek Literature
- LNW6105: The Roman Tradition
- LNW6225: The Ancient Roman Novel
- LNW6335: Roman Oratory and Rhetoric
- LNW6365: Studies in Roman Satire
- LNW6385: Roman Historians
- LNW6495: Late Latin Literature
- LNW6905: Individual Work
- LNW6933: Special Topics in Latin Literature
- LNW6935: Proseminar in Classics
- LNW6940: Supervised Teaching
- LNW6971: Research for Master's Thesis
- LNW7979: Advanced Research
- LNW7980: Research for Doctoral Dissertation

Latin

College

[College of Liberal Arts and Sciences](#)

Department/School

[Classics Department](#)

Latin Program Information

(The following information refers only to our on-campus programs. Please visit the [Distance Learning Homepage](#) for further details on our Distance Learning MA and ML Programs, especially aimed at elementary, secondary, or community college teachers.)

The Department of Classics at the University of Florida offers an M.A. degree in Latin, an M.A.T. degree in Latin, as well as a Master of Latin degree. Students awarded a TA position receive a stipend plus a full tuition waiver. Students are expected to become Florida residents after one year.

The **Master of Arts in Latin** is a thesis degree designed specifically for students who are aiming toward a career in secondary teaching, but who still desire the writing experience and credential that a thesis provides.

The **Master of Arts in the Teaching of Latin (M.A.T.)** is recommended for students who wish to pursue a career in teaching and who want to include educational courses in their program. This is a non-thesis degree.

The **Master of Latin (M.L.) degree** is designed primarily for currently employed, and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of Classics, and enhance their professional qualifications. This is a non-thesis degree.

For minimum degree requirements, see the [Graduate Degrees](#) section of the catalog. For additional requirements, please see the department website: <http://classics.ufl.edu>.

Admission Requirements to the Latin Programs:

Admission into the university and the program for Classics is ultimately determined and granted according to the rules established by the Graduate School of the University of Florida (see the Graduate Catalog).

Submission of Graduate Record Examination (GRE) scores, with a minimum score of 1000 (combined verbal and quantitative). Competitive applicants for funding awards from the department typically have a combined score of at least 1200.

Master's level (Level I) requirements include:

1. Extensive study of Greek and Latin, with at least three years of coursework in one language and at least two years in the other language.
2. At least six hours in one or more of the following: ancient history, ancient art, archaeology, philosophy, literary criticism, linguistics.
3. A GPA of at least a 3.0.
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the record shows promise on other grounds.

Degrees

Master of Arts

Master of Arts in Teaching

Master of Latin

Classics Departmental Courses

- CLA6125: Augustan Age
- CLA6515: Roman Dynasty: Nero and the Julio-Claudians

- CLA 6795: Greek and Roman Archeology
- CLA 6805: The Classical Research Tradition
- CLA 6885: Roman Law and Society
- CLA 6895: Athenian Law and Society
- CLA 6905: Individual Work
- CLA 6930: Greece and the Near East
- CLT 6295: Greek Drama in Translation
- GRE 6425: Greek Prose Composition
- GRE 6755: Epigraphy
- GRK 6905: Individual Work in Modern Greek
- GRW 6105: The Greek Tradition
- GRW 6216: Greek Novel
- GRW 6316: Greek Tragedy
- GRW 6317: Ancient Greek Comedy
- GRW 6345: Greek Lyric Poetry
- GRW 6346: Pindar
- GRW 6347: Homer
- GRW 6386: Greek Historians
- GRW 6506: Plato
- GRW 6705: Attic Orators
- GRW 6905: Individual Work
- GRW 6930: Special Topics in Greek Literature
- GRW 6931: Comparative Study of Greek and Latin Literature
- GRW 6971: Research for Master's Thesis
- GRW 7979: Advanced Research
- GRW 7980: Research for Doctoral Dissertation
- LAT 6425: Latin Prose Composition
- LNW 5325: Roman Elegiac Poetry
- LNW 5655: Roman Poets: Horace
- LNW 5665: Roman Poets: Vergil
- LNW 5675: Roman Poets: Ovid
- LNW 5931: Comparative Study of Latin and Greek Literature
- LNW 6105: The Roman Tradition
- LNW 6225: The Ancient Roman Novel
- LNW 6335: Roman Oratory and Rhetoric
- LNW 6365: Studies in Roman Satire
- LNW 6385: Roman Historians
- LNW 6495: Late Latin Literature
- LNW 6905: Individual Work
- LNW 6933: Special Topics in Latin Literature
- LNW 6935: Proseminar in Classics
- LNW 6940: Supervised Teaching
- LNW 6971: Research for Master's Thesis
- LNW 7979: Advanced Research
- LNW 7980: Research for Doctoral Dissertation

Computer and Information Science and Engineering Department

[College of Liberal Arts and Sciences](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir.

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, Engineer, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Other

Computer Science

College

[College of Liberal Arts and Sciences](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Computer Science Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science degree in Computer Science through the College of Liberal Arts and Sciences. Minimum requirements for this degree are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in Algorithms, Computer Vision, Databases, Graphics and Modeling, Machine Learning, Networks, and Systems, with active labs in Bioinformatics; Computational Science and Intelligence; Vision, Graphics and Medical Imaging Database Systems Research and Development; Data Science Research; Mobile and Pervasive Computing Human-Centered Computing and Cybersecurity.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees Offered with a Major in Computer Science

Master of Science

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts

- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Sociology and Criminology & Law Department

Chair: Barbara Zsembik

Graduate Coordinator: Barbara Zsembik

Complete faculty listing by department: [Follow this link.](#)

The Department of Sociology and Criminology & Law offers several programs of graduate study leading to the Ph.D. in Sociology, the Ph.D. in Criminology, Law and Society, the MA in Sociology, the MA in Criminology, Law and Society, and a Joint MA in Criminology/JD degree. The department also partners with the School of Natural Resources and Environment Department to offer the Ph.D. or MA in Interdisciplinary Ecology. Advanced undergraduate majors may complete a combined BA/MA degree in Sociology or a combined BA/MA degree in Criminology, Law and Society.

Other

Criminology, Law and Society

College

[College of Liberal Arts and Sciences](#)

Department/School

[Sociology and Criminology & Law Department](#)

Criminology, Law and Society Program Information

Requirements for the M.A. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog. The graduate program in criminology and law has two areas of special emphasis: crime and justice, and law and society. The degree programs are research-based and prepare students to conduct original exploration into relevant problems, issues, and policies.

M.A. degree program: Admission to the master's degree program requires a bachelor's degree from a criminology/criminal justice or relevant social science or humanities program (political science, sociology, anthropology, psychology, philosophy, history, women's studies, etc.). Qualified students may enter the master's program as undergraduates through the combined B.A./M.A. program. Both M.A. options (thesis and nonthesis) require satisfactory completion of at least 36 credit hours.

Ph.D. degree program: The Doctor of Philosophy program includes a minimum of 90 semester hours of credit beyond the B.A. Students with a criminology or closely related M.A. received in the last 7 years from an accredited U.S. university may request that up to 30 hours credit from their M.A. work be counted toward this total. Those with an M.A. from this department may apply 36 hours. The Department requires Ph.D. students to complete at least 66 hours of course work (excluding research credits), including the M.A. hours. Qualifying examinations take place at the end of a student's course work.

Criminology, Law and Society/Law joint degree programs: The Department of Sociology and Criminology & Law (CLS) and the College of Law offer a joint degree program leading to an M.A. or a Ph.D. in Criminology, Law and Society and a J.D. in law. The joint degree programs enable students to earn both the degrees (the J.D. and the M.A. or the J.D. and the Ph.D.) in less time than would be required to earn both degrees consecutively. Students wishing to pursue the joint program must be admitted to both the Graduate School and the College of Law. These requirements include both the LSAT and GRE. Admission to one may precede the other. Students are encouraged to announce their intent to seek a joint degree as soon as possible. CLS allows 12 hours of appropriate law school courses to be credited toward the CLS degree. The 12 credits selected from the law curriculum must be approved by the graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in graduate courses to be credited toward the J.D.

Degrees

Doctor of Philosophy

Master of Arts

Courses

- CCJ 5934: Contemporary Issues in Criminology and Law
- CCJ 6936: Proseminar in Crime, Law, and Justice
- CJL 6039: Law and Society
- CCJ 6063: Communities and Crime
- CCJ 6658: Drugs, Crime, and Policy
- CCJ 6285: Criminal Justice Process
- CCJ 6619: Crime and the Life Course
- CCJ 6643: White Collar Crime
- CCJ 6705: Research Methods in Crime, Law, and Justice
- CCJ 6708: Research Issues in Crime and Deviance
- CCJ 6712: Evaluation Research
- CCJ 6905: Independent Study
- CCJ 6910: Supervised Research
- CCJ 6920: Seminar in Criminological Theory
- CCJ 6971: Research for Master's Thesis
- CCJ 7742: Research Methods in Crime, Law, and Justice II
- CCJ 7921: Professional Development in Criminology, Law, and Society
- CCJ 7979: Advanced Research
- CCJ 7980: Research for Doctoral Dissertation
- CJC 6120: Corrections and Public Policy
- CJL 6089: Humanitarian Law
- CJL 6090: Law and Social Science
- CJL 6091: Anthropology of Law
- CJL 6095: Human Rights in Cultural Context

Sociology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Sociology and Criminology & Law Department](#)

Sociology Program Information

Sociologists conduct research to understand the social forces that shape all of our lives, often in hopes of improving everyday life and the life chances of each person. Graduate studies in sociology provide the people skills and technical skills to organize information, communicate analytical research to academic and lay audiences, and prepare well-reasoned and carefully-written reports and documents that contribute to societal well-being. Our award-winning and internationally-known faculty successfully mentor graduate students to complete their studies and become established in their professional academic and nonacademic careers.

We offer particular expertise in these areas: environment and resources, families, aging, gender, health, sexualities, life course, and race-ethnicity in US and global perspectives. There is also considerable expertise in: demography, social inequality, Latin American studies, Latino sociology, social psychology, deviance, and political sociology. We take great pride in the fact that our faculty are involved in interdisciplinary research projects that span nearly all of the University's colleges and academic programs, including the School of Natural Resources and the Environment, the Water Institute, the Emerging Pathogens Institute, the Center for Latin American Studies, the Center for European Studies, the Center for Women's Studies and Gender Research, the Health Science Center, and the Jewish Studies Center. Wherever you go on campus, you will most likely find at least one Sociologist from our department making major contributions.

Minimum requirements for the M.A. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Admission to either Sociology graduate program requires a bachelor's degree in Sociology or related social science as approved by the Department. Current UF students may also enter the M.A. program through the combined B.A./M.A. program. The Sociology graduate programs look for mature students with outstanding potential and research interests that complement those of our faculty.

Prospective students should examine the research interests of the Sociology Graduate Faculty to obtain a more detailed sense of faculty expertise and research areas, see the department website: <http://soccrim.clas.ufl.edu/graduate/>. Applications for admission and fellowship support are due December 1 of each year. Students planning to apply for admission should take the Graduate Record Examination at the earliest possible date.

Degrees Offered with a Major in Sociology

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Tropical Conservation and Development

Courses

- SYA6018: Classical Social Theories
- SYA6126: Contemporary Sociological Theory
- SYA6305: Methods in Social Research I
- SYA6306: Methods in Social Research II
- SYA6315: Qualitative Research Methods
- SYA6327: Research Problems in Deviance
- SYA6407: Quantitative Research Methods
- SYA6905: Individual Work
- SYA6910: Supervised Research
- SYA6942: Applied Social Research Project
- SYA6971: Research for Master's Thesis
- SYA7933: Special Study in Sociology
- SYA7979: Advanced Research
- SYA7980: Research for Doctoral Dissertation
- SYD 6436: Metropolitan Growth and Development
- SYD 6517: Seminar in Environment and Society
- SYD 6518: Core Issues in Environmental and Resource Sociology
- SYD 6706: Racial and Ethnic Relations
- SYD 6707: Black and White Americans: Sociological Perspectives
- SYD 6807: Sociology of Gender
- SYD 6825: Men and Masculinities
- SYD 7808: Reproduction and Gender
- SYO 6107: American Families
- SYO 6126: Family Theories
- SYO 6175: Topics in Family Research
- SYO 6407: Health Disparities
- SYO 6427: Health and Aging
- SYO 6535: Social Inequality
- SYD 6806: Gender and Society
- SYP 6115: Seminar in Symbolic Interaction
- SYP 6517: Theories of Crime and Deviance
- SYP 6545: Sociology of Law
- SYP 6735: Sociology of Aging and the Life Course
- SYP 6736: Sociology of the Aged
- SYP 6745: Aging and End-of-Life Issues

English Department

Chair: K. Kidd

Graduate Coordinator: S. I. Dobrin

Complete faculty listing by department: [Follow this link.](#)

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English, along with the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. For more information about our programs, please follow the hyperlinks below or visit our website: <http://www.english.ufl.edu/programs.html>.

Other

Creative Writing

College

[College of Liberal Arts and Sciences](#)

Department/School

[English Department](#)

Creative Writing Program Information

The Department of English offers the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.F.A. are provided in the [Graduate Degrees](#) section of this catalog. Full information concerning courses of study is available from the graduate coordinator.

Degrees

Master of Fine Arts

English Departmental Courses

- AML 6017: Studies in American Literature Before 1900
- AML 6027: Studies in 20th-Century American Literature
- CRW 6130: Fiction Writing
- CRW 6166: Studies in Literary Form
- CRW 6331: Verse Writing
- CRW 6906: Individual Work
- ENC 5236: Advanced Business Writing for Accounting
- ENC 6428: Digital English
- ENG 6016: Psychological Approaches to Literature
- ENG 6075: Literary Theory: Issues
- ENG 6076: Literary Theory: Theorists
- ENG 6077: Literary Theory: Forms
- ENG 6137: The Language of Film
- ENG 6138: Studies in the Movies
- ENG 6906: Individual Work
- ENG 6910: Supervised Research
- ENG 6932: Film and Video Production
- ENG 6971: Research for Master's Thesis
- ENG 7939: Seminar in Variable Topics
- ENG 7979: Advanced Research
- ENG 7980: Research for Doctoral Dissertation
- ENL 6206: Studies in Old English
- ENL 6216: Studies in Middle English
- ENL 6226: Studies in Renaissance Literature
- ENL 6236: Studies in Restoration and 18th-Century Literature
- ENL 6246: Studies in Romantic Literature
- ENL 6256: Studies in Victorian Literature
- ENL 6276: Studies in 20th-Century British Literature
- LAE 6940: Supervised Teaching
- LAE 6947: Writing Theories & Practices
- LIT 5335: Approaches to Children's and Adolescent Literature
- LIT 6037: Studies in Verse
- LIT 6047: Studies in Drama
- LIT 6309: Communications and Popular Culture
- LIT 6236: Postcolonial Studies
- LIT 6308: Studies in Comics and Animation
- LIT 6327: Studies in Folklore
- LIT 6357: African-Amer. or African Diaspora Lit./Cultures
- LIT 6358: Theoretical Approaches to Black Cultural Studies
- LIT 6855: Issues in Cultural Studies
- LIT 6856: Cultural Studies: Interventions
- LIT 6857: Cultural Studies: Movements
- LIT 6934: Variable Topics
- SPC 6239: Studies in Rhetorical Theory

English

College

[College of Liberal Arts and Sciences](#)

Department/School

[English Department](#)

English Program Information

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English with the specializations listed below. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. Specific areas of specialization for the Master of Arts and the Doctor of Philosophy include literature (Medieval, Renaissance, Restoration, and 18th-century and 19th-century British literature, American literature to 1900, contemporary British and American literature), American studies, critical theory, cultural studies, film and media studies, feminisms, genders and sexualities, postcolonial studies, composition and rhetoric, comics and visual rhetoric, and children's literature.

New graduate students should have completed an undergraduate English major of at least 24 semester hours, and doctoral students should have a Master of Arts degree in English. Full information concerning courses of study is available from the graduate coordinator.

Degrees

Doctor of Philosophy

Master of Arts

English Departmental Courses

- AML 6017: Studies in American Literature Before 1900
- AML 6027: Studies in 20th-Century American Literature
- CRW 6130: Fiction Writing
- CRW 6166: Studies in Literary Form
- CRW 6331: Verse Writing
- CRW 6906: Individual Work
- ENC 5236: Advanced Business Writing for Accounting
- ENC 6428: Digital English
- ENG 6016: Psychological Approaches to Literature
- ENG 6075: Literary Theory: Issues
- ENG 6076: Literary Theory: Theorists
- ENG 6077: Literary Theory: Forms
- ENG 6137: The Language of Film
- ENG 6138: Studies in the Movies
- ENG 6906: Individual Work
- ENG 6910: Supervised Research
- ENG 6932: Film and Video Production
- ENG 6971: Research for Master's Thesis
- ENG 7939: Seminar in Variable Topics
- ENG 7979: Advanced Research
- ENG 7980: Research for Doctoral Dissertation
- ENL 6206: Studies in Old English
- ENL 6216: Studies in Middle English
- ENL 6226: Studies in Renaissance Literature
- ENL 6236: Studies in Restoration and 18th-Century Literature
- ENL 6246: Studies in Romantic Literature
- ENL 6256: Studies in Victorian Literature
- ENL 6276: Studies in 20th-Century British Literature
- LAE 6940: Supervised Teaching
- LAE 6947: Writing Theories & Practices
- LIT 5335: Approaches to Children's and Adolescent Literature
- LIT 6037: Studies in Verse
- LIT 6047: Studies in Drama
- LIT 6309: Communications and Popular Culture
- LIT 6236: Postcolonial Studies
- LIT 6308: Studies in Comics and Animation
- LIT 6327: Studies in Folklore
- LIT 6357: African-Amer. or African Diaspora Lit./Cultures
- LIT 6358: Theoretical Approaches to Black Cultural Studies
- LIT 6855: Issues in Cultural Studies
- LIT 6856: Cultural Studies: Interventions
- LIT 6857: Cultural Studies: Movements
- LIT 6934: Variable Topics
- SPC 6239: Studies in Rhetorical Theory

Geography Department

Chair: M. W. Binford

Graduate Coordinator: C. J. Matyas

Complete faculty listing by department: [Follow this link.](#)

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog

The focus of the Department is in human-environment interactions, with "environment" interpreted very broadly. The Department provides four main areas of specialization for graduate research: economic and cultural geography; resource management and land use and land cover change; medical geography; and physical geography. Economic and cultural geography concerns such topics as spatial economic theory and; housing and care of the elderly. Resource management and land-use and land-cover change focus on agricultural change and resource conservation and development in the tropics and subtropics, and rural and urban land use and land cover change in tropical and temperate regions. Africa and Latin America are the primary areas of regional emphasis outside of the U.S. Physical geography in the Department concentrates on climatology, fluvial geomorphology, and hydrology. Medical geography studies the geographic aspects of human health including disease ecology and transmission and healthcare issues. The Department's extensive geographic information system, remote sensing, and computer cartography teaching and research facilities contribute to and support all of the areas of research. Faculty from the Department are also major participants in the Emerging Pathogens Institute, Florida Climate Institute, Land Use and Environmental Change Institute (L.U.E.C.I.), and the Water Institute. Prospective students should examine the research interests of the Graduate Faculty to obtain a more detailed sense of the Department's specialties (see the departmental website: www.geog.ufl.edu).

To ensure the incorporation of relevant interdisciplinary perspectives in each student's program, the Department maintains close ties with other departments in Liberal Arts and Sciences, and with programs in African studies, Latin American studies, the School of Natural Resources and Environment, the Institute on Aging, urban and regional planning, tropical agriculture, tropical ecology, water resources, the Warrington College of Business Administration, the College of Agricultural and Life Sciences, College of Public Health and Health Professions, and the Hydrological Sciences Academic Cluster. Certificates in certain of these fields may be obtained in addition to graduate degrees in geography. Geography administers the Graduate Certificate in Applied Atmospheric Sciences.

A graduate student should preferably have an undergraduate major in geography, but applicants with degrees in one of the social or physical sciences are accepted into the Department's graduate program. Deficiencies in undergraduate work in geography must be corrected concurrently with registration in graduate level courses. All students in the graduate program are required to take courses in contemporary geographic thought and geographic research skills.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Geography

College

[College of Liberal Arts and Sciences](#)

Department/School

[Geography Department](#)

Geography Program Information

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog

Degrees

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Arts

without a concentration

concentration in Applications of Geographic Technologies

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Arts in Teaching

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Applications of Geographic Technologies

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- GEA 6419: Seminar: South America
- GEA 6466: Seminar on Geography of Amazonia
- GEA 6468: Resource Utilization and Conservation in Latin America
- GEO 5305: Environmental Biogeography
- GEO 5346: Natural Hazards
- GEO 5556: Geography of Innovation and Technological Change
- GEO 5605: Advanced Urban Geography
- GEO 5809: Geography of World Agriculture
- GEO 5905: Individual Study: Directed Reading
- GEO 5920: Geography Colloquium
- GEO 5945C: Field Course in Geography
- GEO 6118: Contemporary Geographic Thought and Research
- GEO 6119: Proposal Writing in Geography
- GEO 6160: Introduction to Quantitative Methods for Geographers
- GEO 6161: Intermediate Quantitative Methods for Geographers
- GEO 6166: Advanced Quantitative Methods for Spatial Analysis
- GEO 6255: Climatology
- GEO 6282: Fluvial Morphology
- GEO 6348: Floods Seminar
- GEO 6375: Land Change Science Seminar
- GEO 6429: Seminar: Cultural Geography
- GEO 6435: Seminar in Population
- GEO 6451: Medical Geography
- GEO 6495: Environment and Behavior
- GEO 6905: Individual Work
- GEO 6921: How to Survive and Thrive in Academia
- GEO 6931: Seminar in Cultural and Political Ecology
- GEO 6938: Selected Topics in Geography
- GEO 6971: Research for Master's Thesis
- GEO 7979: Advanced Research
- GEO 7980: Research for Doctoral Dissertation
- GEY 6341: Shelter and Care Options for U.S. Elderly
- GIS 5008C: Maps and Graphs
- GIS 5009C: Advanced Cartography
- GIS 5028C: Advanced Aerial Photo Interpretation
- GIS 5038C: Remote Sensing
- GIS 5107C: Geographic Information Systems in Research

- GIS 5306: Geographic Information Systems Applications in Environmental Systems
- GIS 5540: Business Geography and New Real Estate Market Analysis
- GIS 6104: Spatial Networks
- GIS 6425C: GIS Models for Public Health
- MET 5504: Weather and Forecasting
- MET 6530: Hurricanes
- MET 6565: Seminar in Atmospheric Teleconnections
- MET 6752: Atmospheric Data Analysis

Geological Sciences Department

Chair: P. A. Mueller.

Graduate Coordinator: J. M. Jaeger.

Complete faculty listing: [Follow this link.](#)

The Department of Geological Sciences is composed of a group of internationally recognized faculty, graduate students, and dedicated support staff. Faculty and students in the Department of Geological Sciences are involved in exciting and groundbreaking research projects throughout the world and in Florida. The Department houses world-class analytical and computing facilities for research and teaching.

The Department has identified six primary areas of emphasis in its research and teaching programs: environmental geology and hydrology, paleoclimatology, tectonophysics, geochemistry and mineralogy/petrology, marine and coastal geology, and paleomagnetism. For more detailed information on current departmental activities, faculty, and research centers, see <http://web.geology.ufl.edu>. The Department has collaborative, interdisciplinary programs of study and research with the Florida Museum of Natural History, the Center for Wetlands Research, the Land Use and Environmental Change Institute (L.U.E.C.I.), and the hydrological sciences cluster.

Other

Geology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Geological Sciences Department](#)

Geology Program

The Department of Geological Sciences offers programs leading to the Master of Science (thesis), the Master of Science in Teaching (nonthesis), and the Doctor of Philosophy degrees in geology. Requirements for these degrees are described in the General Information section of this catalog.

For admission to graduate status in the Department of Geological Sciences, a student must have a baccalaureate degree with a major in geology or a related field or its equivalent. Deficiencies in undergraduate preparation can be corrected by completing the undergraduate courses without credit while enrolled as a graduate student.

Applicants should take the GRE general test. The scores of this examination must be reported to the Department of Geological Sciences. Three letters of recommendation are also required for admission to the doctoral program and for financial aid applications at any level.

A minimum of 33 semester hours of graduate level courses are required for the Master of Science in geology. At least 24 hours must be in organized graduate-level geology courses (excluding research, teaching, special projects, etc.). Six hours of thesis research credit are required. All master's degrees are terminal; a separate and new application for admission to the doctoral program is required.

For the Master of Science in Teaching degree, at least 36 hours are required. Six of these hours must be in [GLY 6943](#) and at least 24 must be in organized graduate-level geology courses. The remaining 6 hours must be in approved electives. A minor in education is required. Candidates also must pass the final oral examination.

Of the 90 semester hours required for the Ph.D., 45 must be in formal, organized graduate-level class work (excluding individual work, supervised research and teaching, advanced research, dissertation, special projects, etc.). Remaining credits will be in [GLY 7979](#) and [GLY 7980](#), additional geology courses, or courses in a related field.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Degrees

Doctor of Philosophy

without a concentration

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- BOT 5305: Paleobotany
- ESC 5211: Current Topics in Earth Science for Teachers
 - ESC 5211L
 - GLY 5020
 - GLY 5020L
 - GLY 5075
- GLY 5156: Geologic Evolution of North America
- GLY 5246: Geochemistry
- GLY 5245: Hydrogeochemistry
- GLY 5247: Surface and Ground Water Interactions
- GLY 5248: Physical Geochemistry
- GLY 5255: Organic Geochemistry and Geobiology
- GLY 5328: Advanced Igneous Petrology
- GLY 5455: Introduction to Geophysics and Tectonics
 - GLY 5456
- GLY 5466: Seismology and Earth Structure
- GLY 5468: Terrestrial Gravity and Magnetism
- GLY 5476: Environmental Geophysics
- GLY 5558C: Sedimentology
- GLY 5576: Continental Margin Stratigraphy
- GLY 5705: Geomorphology
- GLY 5736: Marine Geology
- GLY 5786L: Topics in Field Geology
- GLY 5827: Ground Water Geology
- GLY 6075: Global Climate Change: Past, Present, and Future
- GLY 6268C: Isotope Geology
- GLY 6297: Topics in Geochemistry
 - GLY 6424
- GLY 6425: Tectonics
- GLY 6519: Stratigraphy and Timescales
- GLY 6620C: Micropaleontology
 - GLY 6660C
- GLY 6695: Topics in Paleoclimatology
- GLY 6826: Hydrogeologic Modeling
- GLY 6862: Numerical Methods in Earth Sciences
- GLY 6905: Individual Work
- GLY 6931: Seminar
- GLY 6932: Special Topics in Geology
- GLY 6940: Supervised Teaching
- GLY 6943: Internship in College Teaching
- GLY 6971: Research for Master's Thesis
- GLY 7979: Advanced Research
- GLY 7980: Research for Doctoral Dissertation

History Department

[College of Liberal Arts and Sciences](#)

Chair: Sean P. Adams

Graduate Coordinator: Elizabeth Dale

The Department of History offers the following graduate degrees: Master of Arts with fields of specialization in African, Asian, European, Latin American, and United States history, and the Doctor of Philosophy with fields of specialization in African, European, Latin American, and United States history. In addition to materials required by the Graduate School for admission, applicants must send directly to the History Department the following evidence of aptitude and interest: Three recommendations, from persons competent to evaluate your potential for graduate work; A 3- to 5-page essay identifying your career goals and particular areas of interest; a sample of your written work in history. Interested students should consult the department web page for more information. □□

Other

History

College

[College of Liberal Arts and Sciences](#)

Department/School

[History Department](#)

History Program

The Department of History offers the following graduate degrees: Master of Arts degree with fields of specialization in African, Asian, European, Latin American, and United States history

and the Doctor of Philosophy degree with fields of specialization in African, European, Latin American, and United States history, or with a dual major which allows students to create their own major fields.

Master of Arts: This degree serves to prepare students for admission to a Ph.D. program, for a teaching career in high school or community colleges, or for a career in government or business. □□

Fields of specialization: □□

- African (East Africa, Southern Africa, West Africa) □□
- European (medieval, early modern, or modern) □□
- Latin American (colonial Latin America, post-Colonial Latin America, Brazil, and the Caribbean or Spanish America) □□
- United States history (early America, 19th century, 20th century) □□

Thesis option requirements: □□

- A minimum of 30 credit hours □□
- At least 12 graduate-level regular course credit hours in your major field. In European, you must take at least two seminars in your area of specialization. In U.S. history, you must take the 19th-century America readings seminar, either the 20th-century or early America readings seminar, and at least one research seminar. In Latin American and African history, you must take the relevant readings seminars in your area of specialization, one other readings seminar, and at least one research seminar. □□
- At least 6 graduate-level regular course credit hours outside the major field (but in the Department of History). We recommend that you invest these regular course hours in readings seminars. □□
- Take 3 hours of historiography ([HIS 6061](#)) by the fourth semester of graduate study. □□
- Take 3 regular course credit hours from outside the Department. These should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser. □□
- Complete a master's thesis. The semester you graduate, you must be registered for a minimum of 3 thesis research hours ([HIS 6971](#)) in the fall or spring terms or 2 in a summer term. Your thesis should demonstrate your ability to handle the primary-source material of your field, and a working knowledge of the secondary literature; and should demonstrate your ability to present research results in a coherent, well-written study. The student must complete the thesis and make it available to readers 2 weeks before the oral examination, complete the application for the degree at the Office of the University Registrar before the deadline, and take the examination. □□
- Each student must pass a final comprehensive oral examination at the end of the program. □□

Non-thesis option requirements: □□

- A minimum of 30 credit hours. □□
- At least 12 graduate-level regular course credit hours inside your major field. In European, you must take at least two seminars in your area of specialization. In U.S. history, you must take the 19th-century American readings seminar, either the 20th-century or the early America readings seminar, and at least one research seminar. In Latin American or African history, you must take the relevant readings seminars in your area of specialization, one other readings seminar, and at least one research seminar. □□
- At least 6 graduate-level regular course credit hours outside your major field (but in the Department of History). We recommend that you invest these regular course hours in readings seminars. □□
- Take 3 hours of historiography ([HIS 6061](#)) by your fourth semester of graduate study. □□
- Take 3 regular course credit hours from outside the Department; these should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser. □□
- Complete a research seminar and/or a nonthesis project in history. Your primary goal in either is to complete an article-length essay (approximately 35 to 40 pages) of publishable or near-publishable quality. The essay should be based largely on primary sources. □□
- You must pass a final comprehensive oral and written examination conducted by your supervisory committee. □□

Supervisory committee for the M.A.: The committee normally consists of the chair and two other members of the graduate faculty. Additional members may be added if desirable. The committee assists in planning and supervising the student's program and conducts the final examination. The chair is also the thesis director if that option is chosen. □

Duration: The M.A. program can be completed in 3 semesters of full-time registration but may take longer. The Department believes that normally no more than 4 semesters of full-time registration should be spent on the degree. These semesters need not be consecutive. The Board of Education has established 60 credit hours as a maximum for the master's degree. Up to 6 credits of graduate-level courses taken at another school with a grade of B or better may be transferred into the master's program if approved by the Graduate School.

Bachelor's/master's program: The Department offers a combined 4/1 degree program that enables outstanding undergraduates to obtain both the B.A. and M.A. degrees in history after successful completion of 150 credit hours. The program is designed for the students who wish to continue their education in history past the bachelor's level but do not intend to pursue a doctorate in history or for students who wish to expand their training in a specific field before moving on to a doctoral program. The department offers a 4/1 degree program in the standard M.A. fields of study and offers two specialized tracks: oral history and academic publishing. Please see the Department website for more information. Students in this program are not eligible for departmentally controlled financial aid.

Doctor of Philosophy requirements: □□

- Professional competence in your major field, or major fields for students pursuing a dual degree. □□
- Knowledge of a minor, which may be drawn from the approved major fields of specialization for the doctorate (African, European, Latin American, or U.S. history), from approved minor fields (Atlantic history, gender, legal history), or may be self designed as a thematic research or teaching field. It must include at least 3 hours outside the historical area that defines your major field. Note: Students pursuing a dual major do not take a department minor field.
- At least 3 regular course credit hours from outside the Department; these should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser. □□
- Pass a set of written and oral qualifying examinations testing competence in major and additional fields and your knowledge of the nature of history and the historian's task. □□
- A dissertation for which credit is given in [HIS 7980](#). □□

History/law joint degree program: The Department of History and the College of Law offer a program in legal history leading to either the M.A. or a Ph.D. degree in history and the J.D. in law. Because the faculties of history and law stress interdisciplinary training, students admitted to the joint degree program will be allowed to count a significant number of hours toward both degrees. Applicants must be accepted by both the Graduate School and the College of Law. Normally, students will complete the course and examination requirements of both degrees in 4 years. Students may begin their first year of work in either history or law, but they must complete the first year of law school within 1 year and they must do so within the first 2 years after admission to the joint degree program. □□ For further information write to the Legal History Coordinator, Department of History, University of Florida, Box 117320, Gainesville, FL 32611-7320. □

Degrees

Doctor of Philosophy

without a concentration

concentration in Historic Preservation

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Historic Preservation

concentration in Jewish Studies

Courses

- AFH 5297: History of African Agriculture
- AFH 5348: History of West Africa
- AFH 5458: Southern Africa
- AFH 5934: Topics in African History
- AFH 6259: Seminar in Modern Africa
- AFH 6805: Theories and Methods of African History
- AFH 6934: Africa
- AFH 6936: Readings in African History
- AMH 5405: The South to 1860
- AMH 5905: Special Studies
- AMH 5930: Topics in United States History
- AMH 6198: Early American Society
- AMH 6199: Nineteenth Century America
- AMH 6290: Modern America
- AMH 6356: Research in U.S. History
- AMH 6406: Readings in Southern History, 1607-1865
- AMH 6465: Seminar in U.S. Urban History
- AMH 6506: Seminar in American Labor History
- AMH 6516: Seminar in American Foreign Relations and Expansion
- AMH 6557: Seminar in Constitutional or Legal History of the United States
- ASH 5388: Topics in East Asian History
- EUH 5546: Topics in British History
- EUH 5934: Topics in European History
- EUH 6126: Readings in Medieval History
- EUH 6174: Conversion in the Middle Ages
- EUH 6175: Ethnicity in the Middle Ages
- EUH 6176: Villages and Peasants in the Middle Ages
- EUH 6177: Economy and Society in Late Antiquity and the Early Middle Ages
- EUH 6213: Europe, 1500-1763
- EUH 6289: Readings, Modern Europe
- EUH 6469: Modern German History

- EUH 6935: Readings, Early Modern Europe
- EUH 6937: Readings in Mediterranean History
- HIS 5450: Slavery in the New World: Comparative Perspectives
- HIS 5484: Science and the Enlightenment
- HIS 5485: Special Studies in the History of Science
- HIS 6060: Historical Method
- HIS 6061: Introduction to Historiography
- HIS 6416: Problems in Comparative Legal History
- HIS 6445: Postcolonial Theories
- HIS 6469: Topics in Historiography of History of Science
- HIS 6478: Topics in the Scientific Revolution
- HIS 6480: Pre-Newtonian Sciences
- HIS 6488: Readings in the History of Science
- HIS 6905: Individual Study
- HIS 6910: Supervised Research
- HIS 6940: Supervised Teaching
- HIS 6943: Internship in College Teaching
- HIS 6957: Nonthesis Project in History
- HIS 6971: Research for Master's Thesis
- HIS 7979: Advanced Research
- HIS 7980: Research for Doctoral Dissertation
- LAH 5438: Modern Mexico
- LAH 5475: Caribbean, Nineteenth and Twentieth Centuries
- LAH 5476: Caribbean History to 1800: Slavery, Colonization, and International Conflict
- LAH 5527: Andean Nations
- LAH 5607: History of Amazonia
- LAH 5637: Brazil Since 1750
- LAH 5933: Topics in Caribbean History
- LAH 5934: Topics in Latin American History
- LAH 6934: Seminar in Colonial Spanish America
- LAH 6936: Seminar in History of Brazil
- LAH 6938: Seminar in Modern Spanish America
- EUH 5195: The Archaeology of the Middle Ages

Department of Languages, Literatures and Cultures

Complete faculty listing by department: [Follow this link.](#)

Other

French and Francophone Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

French and Francophone Studies Program Information

Bachelor's/master's program: French and Francophone Studies offers a combined 4/1 degree program that enables outstanding undergraduates to obtain both the B.A. and M.A. degrees after successful completion of 152 credit hours. The program is designed for the students who wish to continue their education in French and Francophone Studies past the bachelor's level but do not intend to pursue a doctorate or for students who wish to expand their training in a specific field before moving on to a doctoral program. Since students in the bachelor's/master's program have a graduate classification, students receiving undergraduate scholarships or Pell grants should check with the funding provider to make sure that they will not lose eligibility. □□

Degrees

Master of Arts

Master of Arts in Teaching

Courses

- FLE 6385: Foreign Languages Teaching Methods
- FRE 6060: Beginning French for Graduate Students I
- FRE 6061: Beginning French for Graduate Students II
- FRE 6466: Advanced Translation and Stylistics
- FRE 6735: Special Studies in French Linguistics
- FRE 6736: The French language in the Americas
- FRE 6785: French Phonetics and Phonology
- FRE 6827: Sociolinguistics of French
- FRE 6845: History of the French Language
- FRE 6855: Structure of French
- FRE 6856: French in the 21st Century
- FRE 6940: Supervised Teaching
- FRE 6943: Romance Language Teaching Methods
- FRE 6945: Practicum in Advanced College Teaching
- FRE 6956: Overseas Studies in French
- FRW 6217: Seventeenth-Century French Prose
- FRW 6276: Readings in Eighteenth-Century Literature
- FRW 6288: Twentieth-Century French Novel
- FRW 6315: Seventeenth-Century French Drama
- FRW 6328: Twentieth-Century French Theater
- FRW 6346: French Poetry of the Renaissance
- FRW 6355: Modern French Poetry
- FRW 6396: French Cinema
- FRW 6416: Later French Medieval Literature
- FRW 6536: The Romantic Period
- FRW 6556: French Realism and Naturalism
- FRW 6715: The Philosophic Movement
- FRW 6780: Studies in Francophone Literature and Culture (Excluding the Caribbean and Sub-Saharan Africa)
- FRW 6805: Introduction to Graduate Study and Research
- FRW 6825: French Critical Theory
 - FRW 6827
- FRW 6900: Special Study in French Literature
- FRW 6905: Individual Work
- FRW 6910: Supervised Research
- FRW 6938: Seminar in French Literature
- FRW 6971: Research for Master's Thesis
- FRW 7979: Advanced Research
- FRW 7980: Research for Doctoral Dissertation

German

Chair: M. Watt

Graduate Coordinator: W. Hasty

Complete faculty listings: [Follow this link.](#)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

Degrees

Doctor of Philosophy

without a concentration

concentration in Women's/Gender Studies

Master of Arts

German Literature and Cinema

- GET 6295: Weimar Cinema
- GET 6299: New German Cinema and its Legacy
- GEW 6205: Foundations of Literary Study
- GEW 6266: History of the German Novel
- GEW 6305: Studies in German Drama and Theater
- GEW 6405: Medieval and Renaissance Literature
- GEW 6425: From Luther to Lessing: Early Modern German Literature
- GEW 6535: German Classical and Romantic Literature
- GEW 6558: Young Germany, Biedermeier, Realism, and Naturalism
- GEW 6725: Culture and Society in the Weimar Republic
 - GEW 6726
- GEW 6735: Modern German Literature
- GEW 6736: Contemporary German Literature
- GEW 6745: Literature and Culture in the Third Reich
- GEW 6826: German Literary Theory
- GEW 6900: Seminar in Germanic Languages and Literatures
- GEW 6901: Special Study in Germanic Languages and Literatures
- GEW 6905: Independent Study
- GEW 6910: Supervised Research
- GEW 6971: Research for Master's Thesis
- GEW 7979: Advanced Research
- GEW 7980: Research for Doctoral Dissertation

German Language

- GER 6060: Beginning German for Graduate Students I
- GER 6061: Beginning German for Graduate Students II
- GER 6505: German Culture
- GER 6940: Supervised Teaching

Romance Languages (Language, Literature and Culture)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

Degrees Offered with a Major in Romance Languages

Doctor of Philosophy

concentration in French and Francophone Studies

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Latin American Studies Department

Director: C. D. Deere.

Graduate Coordinator: R. F. Brown.

Complete faculty listing by department: [Follow this link.](#)

The Center for Latin American Studies offers the following graduate programs:

- Latin American Studies
- Sustainable Development Practice

Other

Latin American Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Latin American Studies Department](#)

Latin American Studies Program

The Center for Latin American Studies offers the following graduate programs:

- An interdisciplinary Master of Arts degree
- Graduate certificate and advanced graduate certificate in Latin American studies in conjunction with disciplinary degrees in the Colleges of Agricultural and Life Sciences; Design, Construction, and Planning; Business Administration; Education; Fine Arts; Journalism and Communications; Law; and Liberal Arts and Sciences.

The graduate program in Latin American studies relies on over 250 courses with Latin American content taught in more than 35 academic units of the above colleges. The degree and certificate programs in Latin American studies are described on their website www.latam.ufl.edu/academics/graduate-programs. Complete course listings are available at the Center for Latin American Studies (319 Grinter Hall) and on the website.

Degrees

Master of Arts

without a concentration

concentration in Tropical Conservation and Development

Latin American Studies Courses

- FOT 6940: Translation Studies Practicum
- LAS 6008: Ecological Principles
- LAS 6220: Issues and Perspectives in Latin American Studies

- LAS 6290: Tropical Conservation and Development
- LAS 6291: Conservation and Development Skills
- LAS 6292: Tropical Conservation and Development Research Methods
- LAS 6293: Design and Methods of Research in Latin American Studies
- LAS 6295: Latin American Business Environment
- LAS 6296: Latin American Business Topics
- LAS 6905: Individual Work
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6940: Tropical Conservation and Development Practicum
- LAS 6943: Development Theory and Practice in Latin America
- LAS 6971: Research for Master's Thesis

Sustainable Development Practice

College

[College of Liberal Arts and Sciences](#)

Department/School

[Latin American Studies Department](#)

Sustainable Development Practice Program

Director: G. Galloway

Program Coordinator: C. Tarter

The Master of Sustainable Development Practice (MDP) Program offers the following academic programs:

- An interdisciplinary Master's degree in Sustainable Development Practice
- A graduate certificate in Sustainable Development Practice

The MDP Program is jointly administered by the Center for Latin American Studies and the Center for African Studies. The Master's degree is described in the *Other Master's Degrees* section of the Graduate Catalog. The certificate program is described in the *Interdisciplinary Graduate Certificates* section of the Graduate Catalog. More information about the MDP Program can also be found at the website <http://www.africa.ufl.edu/mdp/index.html>.

Degrees

Master of Sustainable Development Practice

Sustainable Development Courses

- AFS 6905: Individual Work in African Studies
- EVR 5705: Natural Resources and Innovation Systems
- LAS 6291: Conservation and Development Skills
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6943: Development Theory and Practice in Latin America
- PHC 6445: Global Public Health and Development II
- PHC 6764: Global Public Health and Development I

African Studies Courses

- AFS 5061: Africana Bibliography
- AFS 6060: Research Problems in African Studies
- AFS 6305: Development Theory and Practice Intro
- AFS 6307: Foundations of Economics for Sustainable Development
- AFS 6357: Anthropology of Humanitarian Intervention
- AFS 6905: Individual Work in African Studies

Latin American Studies Courses

- FOT 6940: Translation Studies Practicum
- LAS 6008: Ecological Principles
- LAS 6220: Issues and Perspectives in Latin American Studies
- LAS 6290: Tropical Conservation and Development
- LAS 6291: Conservation and Development Skills
- LAS 6292: Tropical Conservation and Development Research Methods
- LAS 6293: Design and Methods of Research in Latin American Studies
- LAS 6295: Latin American Business Environment
- LAS 6296: Latin American Business Topics
- LAS 6905: Individual Work
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6940: Tropical Conservation and Development Practicum
- LAS 6943: Development Theory and Practice in Latin America
- LAS 6971: Research for Master's Thesis

Additional Course Offerings

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics

- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Linguistics Department

Chair: F. McLaughlin

Graduate Coordinator: E. Potsdam

Complete faculty listing by department: [Follow this link](#)

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For detailed information on the program, please visit the link below. For further information on the program, including financial aid, please visit <http://lin.ufl.edu>.

Other

Linguistics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Linguistics Department](#)

Linguistics Program Information

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

For detailed information on the program, including financial aid, please visit the website <http://lin.ufl.edu>.

The Certificate in Second Language Acquisition and Teaching is offered to University of Florida graduate degree-seeking students in linguistics and related disciplines.

As part of its service to the University community, Linguistics also offers English as a Second Language training for international applicants and admitted students. These programs, the English Language Institute (ELI), Academic Written English (AWE), and Academic Spoken English (ASE), are described in the [Student Services](#) section of this catalog. This information, along with links to the application form, are available at <http://lin.ufl.edu>.

Applicants who lack a background in linguistics should develop basic competency in the core areas before commencing graduate work. These deficiencies can be met by taking LIN 3010, LIN 3201, and LIN 3460 or the equivalent.

Degrees

Doctor of Philosophy

Master of Arts

Linguistics Departmental Courses

- EAP 5835: Academic Spoken English I
- EAP 5836: Academic Spoken English II
- EAP 5837: Academic Spoken English Tutorial
- EAP 5845: Academic Writing
- EAP 5846: Research and Technical Writing
- EAP 5937: Special Topics in Academic Spoken English
- LIN 5657: Gender and Language
- LIN 5741: Applied English Grammar
- LIN 6084: Introduction to Graduate Research
- LIN 6165: Field Methods
- LIN 6208: Phonetics for Linguists
- LIN 6226: Advanced Phonetics
- LIN 6323: Phonology
- LIN 6341: Issues in Phonology
- LIN 6402: Morphology
- LIN 6410: Issues in Morphology
- LIN 6501: Syntax
- LIN 6520: Issues in Syntax
- LIN 6571: Structure of Specific Language
- LIN 6601: Sociolinguistics
- LIN 6622: Bilingualism
- LIN 6707: Psycholinguistics
- LIN 6708C: Methods in Psycholinguistics
- LIN 6720: Second Language Acquisition
- LIN 6773: Topics in Computational Linguistics
- LIN 6796: Cognitive Neuroscience of Language
- LIN 6804: Semantics I
- LIN 6826: Introduction to Formal Pragmatics
- LIN 6856: Semantics II
- LIN 6905: Individual Study
- LIN 6910: Supervised Research
- LIN 6932: Special Topics
- LIN 6940: Supervised Teaching
- LIN 6971: Research for Master's Thesis
- LIN 7118: History of Linguistics
- LIN 7641: Seminar in Language Variation
- LIN 7725: Topics in Second Language Acquisition
- LIN 7885: Discourse Analysis and Pragmatics
- LIN 7979: Advanced Research
- LIN 7980: Research for Doctoral Dissertation
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes

Mathematics Department

Chair: D. Cenzler

Graduate Coordinator: J. A. Larson

Complete faculty listing: [Follow this link.](#)

The Department of Mathematics offers the degrees of Doctor of Philosophy, Master of Science and Master of Arts, and the Master of Arts in Teaching and Master of Science in Teaching each with a major in mathematics. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

Interdisciplinary Programs — The Department offers a co-major program in conjunction with the Statistics Department leading to the Doctor of Philosophy degree in mathematics and statistics. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Statistics, Industrial and Systems Engineering, and Finance, Insurance, and Real Estate Departments.

Combined Program — The Department has an accelerated bachelor's/master's program designed for superior undergraduate students who have the ability to pursue such a plan of study leading to the Master of Science or Master of Arts degree. The main feature of the program is that up to 12 semester hours of approved graduate level mathematics courses may be used as dual credit for both the undergraduate and the graduate degree. All other requirements for both the bachelor's degree and the master's degree must be met. For admission requirements for this program, see the undergraduate coordinator.

There are opportunities for concentrated study in a number of specific areas of pure and applied mathematics at both the master's and doctoral levels. The faculty directs studies and research in algebra, number theory, analysis, geometry, topology, logic, differential equations, dynamical systems, probability theory, numerical analysis, numerical optimization, approximation theory, combinatorial analysis, graph theory, computer applications, biomathematics, mathematical physics, inverse problems, and medical imaging. In addition to the requirements of the Graduate School, the minimum prerequisite for admission to the program of graduate studies in mathematics is the completion, with an average grade of B or better, of at least 24 credits of undergraduate mathematics, including a full year of calculus and three semesters of appropriate work beyond the calculus. The most appropriate courses for this purpose are advanced calculus, linear algebra and abstract algebra. Students lacking part of the requirements will be required to make up the deficiency early in their graduate work. Prerequisites to individual courses should be determined before registration by consultation with the instructor concerned. Some of the courses listed are offered only as needed. Since times of offering courses are estimated a year in advance, certain changes may be made if needs are known by the Department. The courses [MAA 5228](#), [MAA 5229](#), [MAS 5311](#), and [MAS 5312](#) are required for all advanced degree programs in mathematics. The requirements for the master's degree nonthesis option include a minimum of 32 semester hours of course work. Students pursuing the master's degree in mathematics must pass two comprehensive written examinations, one in algebra and one in analysis. Students pursuing the master's degree with a specialization in applied mathematics have two options: the examination option requires passage of the algebra and analysis examinations; the thesis option requires instead the preparation and oral defense of a thesis on original research conducted under the supervision of a faculty adviser. Students pursuing the Master of Arts in Teaching or the Master of Science in Teaching degree must prepare a teaching portfolio and pass an oral examination. Each of these programs normally requires two years for completion. The requirements for a doctoral degree include 36 hours of 6000-level course work in mathematics; no hours of teaching, colloquium, dissertation, or individual work will count toward this requirement. To become a candidate for the doctoral degree, the student must pass a comprehensive preliminary examination with written and oral components administered by the Department. The doctoral student must also pass a reading knowledge examination in one of the following foreign languages: French, German, or Russian. The dissertation is an important requirement for the doctoral degree in mathematics. The topic for the dissertation may be chosen from a number of areas of current research in pure and applied mathematics. Every graduate student is expected to attend the regular colloquium. Details concerning all requirements for graduate degrees in mathematics may be obtained by writing the Mathematics Department Graduate Selection Committee or consulting the Department website, <http://www.math.ufl.edu>.

Other

Mathematics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Mathematics Department](#)

Degrees

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

concentration in Quantitative Finance

Master of Arts in Teaching

Master of Science

Master of Science in Teaching

Courses

- MAA 5104: Advanced Calculus for Engineers and Physical Scientists I
- MAA 5105: Advanced Calculus for Engineers and Physical Scientists II
- MAA 5228: Modern Analysis I
- MAA 5229: Modern Analysis II
- MAA 5404: Introduction to Complex Variables for Engineers and Physical Scientists
- MAA 6236: Mathematical Analysis for Statisticians
- MAA 6406: Complex Analysis I
- MAA 6407: Complex Analysis II
- MAA 6616: Analysis I
- MAA 6617: Analysis II
- MAA 7526: Advanced Topics in Functional Analysis I
- MAA 7527: Advanced Topics in Functional Analysis II
- MAD 6206: Combinatorial Theory I
- MAD 6207: Combinatorial Theory II
- MAD 6406: Numerical Linear Algebra
- MAD 6407: Numerical Analysis
- MAD 7396: Topics in Combinatorial Theory I
- MAD 7397: Topics in Combinatorial Theory II
- MAE 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAP 5304: Intermediate Differential Equations for Engineers and Physical Scientists
- MAP 5345: Introduction to Partial Differential Equations
- MAP 5489: Modeling in Mathematical Biology

- MAP 6208: Numerical Optimization
- MAP 6327: Applied Differential Equations I
- MAP 6356: Partial Differential Equations I
- MAP 6357: Partial Differential Equations II
- MAP 6375: Numerical Partial Differential Equations
- MAP 6376: Finite Element Method
- MAP 6467: Stochastic Differential Equations and Filtering Theory I
- MAP 6468: Stochastic Differential Equations and Filtering Theory II
- MAP 6472: Probability and Potential Theory I
- MAP 6473: Probability and Potential Theory II
- MAP 6487: Biomathematics Seminar I
- MAP 6488: Biomathematics Seminar II
- MAP 6505: Mathematical Methods of Physics and Engineering
- MAP 6506: Mathematical Methods of Physics and Engineering II
- MAP 6941: Internship in Applied Mathematics
- MAP 7436: Seminar in Applied Mathematics I
- MAP 7437: Seminar in Applied Mathematics II
- MAS 5311: Introductory Algebra I
- MAS 5312: Introductory Algebra II
- MAS 6331: Algebra I
- MAS 6332: Algebra II
- MAS 7215: Theory of Numbers I
- MAS 7216: Theory of Numbers II
- MAS 7396: Advanced Topics in Algebra I
- MAS 7397: Topics in Algebra II
- MAT 6905: Individual Work
- MAT 6910: Supervised Research
- MAT 6932: Special Topics in Mathematics
- MAT 6971: Research for Master's Thesis
- MAT 7979: Advanced Research
- MAT 7980: Research for Doctoral Dissertation
- MHF 5107: Introduction to Set Theory
- MHF 5207: Foundations of Mathematics
- MHF 6306: Mathematical Logic I
- MHF 6307: Mathematical Logic II
- MTG 5316: Introduction to Topology I
- MTG 5317: Introduction to Topology II
- MTG 5411: Introduction to Fractal Geometry
- MTG 5412: Introduction to Dynamical Systems and Chaos
- MTG 6256: Differential Geometry I
- MTG 6257: Differential Geometry II
- MTG 6346: Topology I
- MTG 6347: Topology II
- MTG 6401: Ergodic Theory and Dynamical Systems I
- MTG 6402: Ergodic Theory and Dynamical Systems II
- MTG 7396: Advanced Topics in Topology I
- MTG 7397: Advanced Topics in Topology II

Philosophy Department

Chair: G. Witmer.

Graduate Coordinator: C. Liu.

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Arts and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog.

Admission to the program requires a bachelor's degree in philosophy or sufficient course work in philosophy, as determined by the department. Applicants are evaluated on the basis of academic achievement, GRE scores, three letters of recommendation, a statement of purpose, and a sample essay in philosophy. Students may be admitted as for a terminal M.A. degree or for the Ph.D. Program.

The M.A. degree requires two years (36 hours) of course work. All graduate students take foundational courses in their first four semesters: the graduate Proseminar (PHI [PHI 5935](#)), Graduate Logic (PHI [5135](#)), a course in Ancient Philosophy (PHP [5005](#) or PHP [5015](#)), a course in Modern Philosophy (PHI [5405](#) or PHI [5406](#)), and either Foundations of Analytic Philosophy (PHP [5785](#)) or Epistemology (PHI [5365](#)).

The Ph.D. requires 90 credit hours, which may include 36 used as credit for the M.A. In addition to the foundational courses required for the M.A., the Ph.D. requires Ethical Theory (PHI [5665](#)) and both of PHP [5785](#) and PHI [5365](#). It also requires six courses at the advanced 6000-level, 3 proposal research hours and 12 doctoral research hours, and of course the successful completion and defense of a dissertation.

Further information about the department's programs and admissions can be obtained on the department's website web.phil.ufl.edu or by contacting the Graduate Coordinator, 330 Griffin-Floyd Hall, (352)392-2084 or gradcoord@phil.ufl.edu.

Other

Philosophy

College

[College of Liberal Arts and Sciences](#)

Department/School

[Philosophy Department](#)

Degrees

Doctor of Philosophy

Master of Arts

Master of Arts in Teaching

Courses

- PHH 5405: Modern Philosophy I
- PHH 5406: Modern Philosophy II
- PHH 5605: Studies in Continental Philosophy
- PHH 6105: Seminar in Ancient Philosophy
- PHH 6425: Seminar in Modern Philosophy
- PHI 5135: Graduate Logic
- PHI 5225: Philosophy of Language
- PHI 5325: Philosophy of Mind
- PHI 5365: Epistemology
- PHI 5405: Philosophy of Science
- PHI 5425: Philosophy of Social Science
- PHI 5505: Metaphysics
- PHI 5665: Ethical Theory
- PHI 5905: Individual Work
- PHI 5934: Topics in Philosophy
- PHI 5935: Proseminar
- PHI 6105: Seminar in Logic
- PHI 6226: Seminar in Philosophy of Language
- PHI 6306: Seminar in Epistemology
- PHI 6326: Seminar in Philosophy of Mind
- PHI 6406: Seminar in Philosophy of Science
- PHI 6506: Seminar in Metaphysics
- PHI 6667: Seminar in Ethics
- PHI 6787: Seminar in Continental Philosophy
- PHI 6905: Individual Work
- PHI 6910: Supervised Research
- PHI 6934: Special Topics
- PHI 6940: Supervised Teaching
- PHI 6971: Research for Master's Thesis
- PHI 7979: Advanced Research
- PHI 7980: Research for Doctoral Dissertation
- PHP 5005: Ancient Philosophy I
- PHP 5015: Ancient Philosophy II
- PHP 5785: Foundations of Analytic Philosophy
- PHP 6415: Seminar in Kant
- PHP 6795: Seminar in Analytic Philosophy
- PHP 6930: Seminar in a School or Thinker

Physics Department

[College of Liberal Arts and Sciences](#)

Chair: Kevin Ingersent

Graduate Coordinator: Guido Mueller

Complete faculty listings: [Follow this link](#).

The Department of Physics offers the Master of Science (thesis or nonthesis) and the Doctor of Philosophy degrees. The nonthesis Master of Science in Teaching is also offered. Requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog.

Areas of specialization for graduate research include astrophysics and cosmology, atomic and molecular physics, biological physics, chemical physics, condensed matter physics (theory and experiment), nuclear physics, particle physics (theory and experiment), statistical physics, and low temperature physics.

Special interdisciplinary research programs include the Institute for Fundamental Theory (carried out jointly with the Department of Mathematics), the Institute for Theoretical and Computational Studies in Molecular and Materials Science (carried out jointly with the Department of Chemistry), the Institute of High Energy and Particle Astrophysics, and Microfabritech (jointly with the College of Engineering). A curriculum is offered by the Center for Chemical Physics for students interested in research related to chemistry or chemical engineering. The Center for Condensed Matter Sciences provides opportunities for investigations in a diverse range of subjects and fields, including the Microkelvin Research Laboratory. The University of Florida operates the National High Magnetic Field Laboratory jointly with Florida State University and Los Alamos National Laboratory.

The core curriculum is designed to provide a thorough foundation for all physics graduate students. It consists of [PHY 6246](#), [PHY 6346](#), [PHY 6347](#), [PHY 6536](#), [PHY 6645](#), and [PHY 6646](#). Doctoral students must achieve a 3.30 GPA in the core curriculum. All students must pass a preliminary examination at the undergraduate level. All degree candidates are required, as part of their graduate education, to participate continuously in the research and/or teaching programs of the Department.

For more information, please see the program page below, and visit our website: <http://www.phys.ufl.edu>.

Other

Physics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Physics Department](#)

Physics Program Information

The Department of Physics is dedicated to advancing the forefronts of knowledge in both pure and applied physics, thus providing an exciting intellectual climate for our graduate students. Our research activities include astrophysics (particle astrophysics, cosmology and gravitation), condensed matter and materials physics (experimental, theoretical and computational), low temperature physics, elementary particle physics (experimental and theoretical) and biological physics. With such diversity in research offerings you will have an opportunity to pursue research in most areas of contemporary physics. In spite of the size of our Department, we are committed to designing a program of graduate study that is tailored to your experience and interests. Our Graduate Coordinator sees that each of our graduate students receives personal attention and advice as they progress toward their advanced degree.

Graduate Program Overview

Preliminary Examination:

- Covers undergraduate subject matter
- Given twice a year; two years to complete

Graduate Core Courses

- Two semesters of quantum mechanics
- Two semesters of electromagnetism
- One semester of classical mechanics
- One semester of statistical mechanics
- Waivers given for equivalent
- work at other institutions
- Completed in first or second years

Distribution Requirement

- Advanced course work in three subfields
- Usually completed by the end of the second year

Highlights

- Involvement in research in first summer (or sooner)!
- Diversity of research interdisciplinary options!
- Individualized program designed to meet the unique background of each student!

For more information, please see our website: <http://www.physics.ufl.edu>.

Degrees

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

Master of Science

Master of Science in Teaching

Courses

- AST 6416: Physical Cosmology
- PHY 5277: Physics of Accident Reconstruction and Biomechanics
- PHY 5905: Individual Work
- PHY 6246: Classical Mechanics
- PHY 6346: Electromagnetic Theory I
- PHY 6347: Electromagnetic Theory II
- PHY 6536: Statistical Mechanics I
- PHY 6555C: Cryogenics
- PHY 6645: Quantum Mechanics I
- PHY 6646: Quantum Mechanics II
- PHY 6648: Quantum Field Theory I
- PHY 6905: Individual Work
- PHY 6910: Supervised Research
- PHY 6920: Departmental Colloquium
- PHY 6932: Seminar in Molecular and Computational Physics
- PHY 6943: Internship in College Teaching
- PHY 6971: Research for Master's Thesis
- PHY 7097: Advanced Topics in Theoretical Physics
- PHY 7669: Quantum Field Theory II
- PHY 7939: Special Topics
- PHY 7979: Advanced Research
- PHY 7980: Research for Doctoral Dissertation
- PHZ 5155C: Physical Modeling and Simulation
- PHZ 5245: Introduction to Magnetic Resonance
- PHZ 5354: Introduction to Particle Physics
- PHZ 5405: Introduction to Solid-State Physics
- PHZ 6156: Computer Methods in Physics
- PHZ 6166: Qualitative Methods of Theoretical Physics
- PHZ 6355: Elementary Particle Physics I
- PHZ 6358: Standard Model of Elementary Particles I
- PHZ 6391: Seminar in Astrophysics
- PHZ 6392: Seminar in Particle Physics
- PHZ 6426: Solid State I
- PHZ 6493: Seminar in Condensed Matter Physics
- PHZ 6607: Special and General Relativity
- PHZ 7357: Elementary Particle Physics II
- PHZ 7359: Standard Model of Elementary Particles II
- PHZ 7427: Solid State II
- PHZ 7428: Modern Condensed Matter Physics
- PHZ 7429: Phases of Condensed Matter
- PHZ 7608: Special and General Relativity II

Plant Molecular and Cellular Biology Department

[College of Agricultural and Life Sciences](#)

[College of Liberal Arts and Sciences](#)
[College of Medicine](#)

Plant Molecular and Cellular Biology (PCMB) currently has 40 faculty members in the program. They are based in the departments of [Agronomy](#), [Biology](#), [Environmental Horticulture](#), [Forest Resources and Conservation](#), [Horticultural Sciences](#), [Microbiology and Cell Science](#), [Molecular Genetics and Microbiology](#), and [Plant Pathology](#) within the colleges of [Agriculture and Life Sciences](#), [Medicine](#), and [Liberal Arts and Sciences](#).

Other

Plant Molecular and Cellular Biology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Plant Molecular and Cellular Biology Department](#)

Plant Molecular and Cellular Biology Program Information

Director: Gloria A. Moore
Graduate Coordinator: Matias Kirst

Plant Molecular and Cellular Biology (PCMB) is an interdisciplinary and interdepartmental graduate degree program that emphasizes understanding the molecular and cellular mechanisms that mediate plant development, adaptation, and evolution. Students can pursue an M.S. or a Ph.D. degree through the PCMB program. All students complete core courses in Advanced Genetics, Plant Molecular Biology and Genomics, Plant Cellular and Developmental Biology, and Plant Biochemistry. In addition to the core classes, students can select from a variety of courses in biochemistry, molecular biology, physiology, breeding, genetics, evolution, microbiology, and plant pathology.

New students are exposed to a variety of faculty and experimental systems while they rotate through several laboratories during their first two semesters before selecting an adviser and dissertation research area. Both M.S. and Ph.D. students take four required courses: [PCB 5065](#) Advanced Genetics, [PCB 5530](#) Plant Molecular Biology and Genomics, [PCB 6528](#) Plant Cell and Developmental Biology and [BOT 6935](#) Plant Biochemistry, as well as journal colloquium classes ([PCB 7922](#) Journal Colloquium). Additional elective courses are taken after approval by the student's supervisory committee. For additional information see <http://pmcb.ifas.ufl.edu>.

Successful candidates should have a strong interest in plant molecular and cellular mechanisms controlling development, metabolism, adaptation, and evolution. Applicants typically have a B.S. or M.S. in the agricultural, forestry, biological or chemical sciences with advanced undergraduate coursework in genetics, molecular and cellular biology, and biochemistry. However, outstanding students from a broad range of science disciplines are actively considered.

Degrees

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Molecular and Cellular Biology Courses

- BOT 6935: Special Topics
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6910: Supervised Research
- PCB 6937: Special Topics in Plant Molecular and Cellular Biology
- PCB 6971: Research for Master's Thesis
- PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

Political Science Department

Chair: Ido Oren

Graduate Coordinator: Daniel Smith

Complete faculty listing: [Follow this link.](#)

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science–international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) or follow the hyperlinks below to more information about the specific programs offered.

Other

Political Science

College

[College of Liberal Arts and Sciences](#)

Department/School

[Political Science Department](#)

Political Science Program Information

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science–international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information about international relations, please contact the [Political Science Department](#) or visit [their departmental page in this catalog](#).

Admission to graduate study in the Department of Political Science normally requires the completion of an undergraduate major in political science or its equivalent. Students without this preparation may be required to make up deficiencies early in their graduate work. The core sequence begins in the fall term, providing basic knowledge that students need in later semesters. In evaluating candidates for admission, the Department considers

- Prior academic achievement
- GRE scores
- Letters of recommendation from three faculty members or others familiar with the academic potential or work habits of the applicant
- A statement of purpose that conveys intellectual ambitions, indicates how the program of study satisfies the student's interests and goals, and tells how the student would contribute to the program.

Fields of specialization offered by the Department include American government and politics, comparative politics, international relations, public policy, political theory, political behavior, and political methodology.

Master of Arts: The M.A. curricula are designed to serve students who want to pursue goals of an advanced general education, to gain skills and knowledge suitable for various types of public or private employment, or to prepare for further work at the doctoral level. M.A. students are required to complete [POS 6736: The Conduct of Inquiry](#) and either [POS 6737: Political Data Analysis](#) or [STA 6126: Statistical Methods in Social Research I](#). Students may complete their M.A. degrees with or without writing a thesis. Students pursuing the thesis option must complete 30 hours of graduate course work. The thesis is expected to be of length and quality comparable to papers presented at professional academic conferences or published in academic journals. Students pursuing the nonthesis option must complete 36 semester hours of graduate course work and defend two qualifying papers. For both M.A. options, course work in political science, exclusive of core courses, must include a minimum of two graduate-level courses in one field of political science.

The M.A. degree may be taken in conjunction with the following certificate programs:

- Political campaigning
- Public affairs

Students in these certificate programs pursue the nonthesis option.

Public affairs: This program trains students for leadership positions in state, local, and national governments as well as for careers in nonprofit organizations by providing students with knowledge and skills in the areas of organization behavior, public budgeting and finances, public management, policy analysis, program evaluation, and computer applications. The curriculum consists of seminars in political science, public administration, public policy, process, state and local politics, and research methods. Supervised internships in selected agencies in Florida are

arranged by the Department of Political Science as an integral part of the training program. This specialization requires 39 hours of course work plus satisfactory completion of a 3-hour internship at the discretion of the Department. Students must also defend a final management-policy paper that incorporates analytical and substantive expertise. Graduates of the program serve in a variety of professional positions, including city managers, heads of municipal departments, directors of nonprofit organizations, analysts for the state legislature, and budget analysts for the federal government. In addition to the M.A. degree in political science, students receive the Certificate in Public Affairs.

Political campaigning: The program is designed to provide students with the basic political skills, insights, and experience that are critical for success in the rapidly changing profession of politics and political consulting. The program combines an awareness of the academic literature on mass and elite behavior with exposure to the increasingly sophisticated techniques used by campaigns. Students take a total of 39 hours from four major areas:

- Courses required of all M.A. students
- Courses oriented to practical aspects of political campaigning and governmental affairs (lobbying), including a 3-credit campaign-related internship
- Courses placing campaigns and elections in the broader context of American politics
- Related courses offered by the College of Journalism and Communications

Entry-level jobs have included such positions as legislative aide, campaign (or deputy campaign) manager, polling analyst, state party political coordinator, general campaign consultant, and media relations. With additional experience, some former students have gone on to become state legislator (and later, member of the U.S. House of Representatives), deputy chief of staff to the governor of Florida, partner in a major Washington area polling firm, assistant to the Minister of Justice and Attorney General of Canada, and head lobbyist for a nationwide restaurant chain. In addition to the M.A. degree in political science, students receive the Certificate in Political Campaigning.

Law/Public Affairs joint degree program: This program culminates in the Master of Arts in political science and Juris Doctor degrees. A joint degree program culminating in the Master of Arts in political science international relations and Juris Doctor degrees is also available. The joint program enables students to earn both the J.D. and the M.A. in less time than would be required to earn both degrees consecutively. Full-time students who make satisfactory progress can usually earn both degrees in 4 years. Candidates for the joint degree program must meet the entrance requirements for, and be admitted to, both the College of Law and the Department of Political Science. These requirements include both the LSAT and the GRE. Students are encouraged to announce their intent of seeking a joint degree as soon as possible. The Department of Political Science will allow 12 hours of appropriate law school courses to be credited toward the M.A. degree. The 12 credits selected from the law curriculum must be approved by the Political Science graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in political science graduate courses to be credited toward the J.D. degree. Students in the joint degree program are permitted, but not required, to pursue a companion certificate program in public affairs, political campaigning, or international development policy and administration.

Combined bachelor's/master's degree program: This combined program is designed for superior students who have the ability to pursue an accelerated program leading to the Bachelor of Arts and the Master of Arts degrees in political science or political science international relations.

Up to 12 semester hours of approved graduate-level political science courses may be used as credit for both the undergraduate and graduate degree. Applicants to the program must present

- Acceptable scores on the verbal, quantitative, and analytical writing portions of the GRE
- Completion of at least 24 semester hours at the University of Florida (including at least 12 semester hours of political science) with a GPA of 3.7 or higher
- Letters of recommendation from two faculty members in the Department of Political Science

The combined program is not recommended for students considering a Ph.D. program in political science at UF but is appropriate for those considering one of the M.A. degree plus certificate programs described above. Further information concerning this program is available from the departmental undergraduate and graduate coordinators.

Doctor of Philosophy: The Ph.D. program emphasizes preparation for academic careers through seminars, independent work with faculty, and professional development experiences including graduate paper readings, placement workshops, and a distinguished lecture series. The Ph.D. prepares students for teaching and research in either an academic or governmental environment and opens doors to other career opportunities in both the private and public sectors. The Ph.D. program emphasizes the development of strong analytic skills and sophisticated research methods. As resources permit, the Department provides students with funding for travel expenses to scholarly meetings and professional (methodological) training support. As part of the preparation for careers in academia, doctoral students are also generally expected to contribute to the teaching mission of the Department. All Ph.D. students must complete the following

- [POS 6736: The Conduct of Inquiry](#)
- [POS 6716: Scope and Epistemologies of Political Science](#)
- [POS 6737: Political Data Analysis](#)
- [POT 6505: Politics and Theory](#)
- Course work in a major and two minor fields of study
- Qualifying examinations in a major field and one minor field
- A dissertation

Fields of study open to Ph.D. students include comparative politics, American politics, public policy, international relations, political behavior, political theory, and political methodology. Applications are particularly welcome from students whose intellectual interests traverse these fields, including those with interests in religion and politics, state political institutions and policy, environmental politics, international development, and minority and ethnic politics.

University of Florida Ph.D. students benefit from associations with faculty in numerous other departments and centers. The Centers for Latin American Studies, African Studies, and European Studies, and the Asian Studies Program complement department faculty strengths in comparative politics and international relations. Students in the public policy concentration benefit from substantive expertise of faculty in the Institute for Child Health Policy, the Shimborg Center for Affordable Housing and the Center for Gerontological Studies. Several faculty in the College of Journalism and Communications have interests in media and politics.

For more information, please see our website: <http://polisci.ufl.edu>.

Degrees Offered with a Major in Political Science

Doctor of Philosophy

without a concentration

concentration in Educational Policy

concentration in Tropical Conservation and Development

Master of Arts

without a concentration

concentration in International Development Policy and Administration

concentration in Public Affairs

concentration in Political Campaigning

concentration in Tropical Conservation and Development

Political Science Departmental Courses

- CPO 5935: Advanced Topics in Comparative Politics
- CPO 6046: Politics in Advanced Industrial Societies
- CPO 6059: Democracy and Its Competitors
- CPO 6077: Social Movements in Comparative Perspective
- CPO 6091: Introduction to Comparative Political Analysis
- CPO 6206: Seminar in African Politics
- CPO 6307: Latin American Politics I
- CPO 6732: Democratization and Regime Transition
- CPO 6736: Post-Communist politics
- CPO 6756: Comparative Elections and Party Systems
- CPO 6757: The European Union In Comparative Perspective
- CPO 6786: Peasant Politics and Society
- CPO 6795: Environmental Politics
- CPO 6796: Water Politics
- INR 5935: Advanced Topics in International Relations
- INR 6036: Globalization, Regionalism, and Governance
- INR 6039: International Political Economy
- INR 6208: Advanced International Relations Theory
- INR 6213: Seminar: Politics of the European Union
- INR 6249: Inter-American Relations
- INR 6305: Politics of American Foreign Policy Making
- INR 6337: Survey of International Security
- INR 6352: International Environmental Relations
- INR 6507: International Organization
- INR 6607: International Relations Theory
- INR 6936: Seminar in Transnational and Global Studies
- INR 6938: Seminar in Culture and World Politics
- PAD 5935: Advanced Topics in Public Administration
- PAD 6108: Public Administration Theory
- PAD 6227: Public Budgeting and Finance
- PAD 6434: Leadership and Ethics in Public Agencies
- POS 6458: Politics of Campaign Finance
- PAD 6946: Internship in Government
- POS 5935: Advanced Topics in Political Science
- POS 6045: Seminar in American Politics
- POS 6048: American Political Development
- POS 6127: State Government and Politics
- POS 6146: Urban Politics
- POS 6157: Community Analysis
- POS 6196: Patrons, Clients, Corruption, and Accountability
- POS 6207: Political Behavior
- POS 6208: Empirical Political Research
- POS 6272: Political Participation
- POS 6274: Political Campaigning
- POS 6278: Advanced Campaign Strategy
- POS 6279: The Politics of Direct Democracy
- POS 6292: Religion and Politics
- POS 6427: Legislative Process

- POS 6453: Political Parties and Interest Groups
- POS 6476: Bureaucratic Politics in the U.S.
- POS 6707: Qualitative Research Methods for Political Science
- POS 6712: Empirical Theories of Politics
- POS 6716: Scope and Epistemologies of Political Science
- POS 6736: The Conduct of Inquiry
- POS 6737: Political Data Analysis
- POS 6747: Topics in Political Research Methodology
- POS 6757: Survey Research
- POS 6909: Individual Work
- POS 6910: Supervised Research
- POS 6933: Special Topics
- POS 6940: Supervised Teaching
- POS 6971: Research for Master's Thesis
- POS 7979: Advanced Research
- POS 7980: Research for Doctoral Dissertation
- POT 5935: Advanced Topics in Political Theory
- POT 6016: Ancient Political Thought
- POT 6056: Modern Political Thought
- POT 6067: Contemporary Political Theory
- POT 6306: Liberalism and Its Critics
- POT 6314: Democratic Theory
- POT 6416: The Marxist Tradition and its Critics
- POT 6505: Politics and Theory
- POT 6516: Political Judgment
- PUP 5935: Advanced Topics in Public Policy
- PUP 6006: Policy Evaluation
- PUP 6007: Policy Process
- PUP 6009: Public Policy Analysis
- PUP 6315: Race, Gender, and Politics

Political Science - International Relations

College

[College of Liberal Arts and Sciences](#)

Department/School

[Political Science Department](#)

Political Science--International Relations Program Information

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) directly or visit [their departmental catalog page](#).

Admission to graduate study in the Department of Political Science normally requires the completion of an undergraduate major in political science or its equivalent. Students without this preparation may be required to make up deficiencies early in their graduate work. The core sequence begins in the fall term, providing basic knowledge that students need in later semesters. In evaluating candidates for admission, the Department considers

- Prior academic achievement
- GRE scores
- Letters of recommendation from three faculty members or others familiar with the academic potential or work habits of the applicant
- A statement of purpose that conveys intellectual ambitions, indicates how the program of study satisfies the student's interests and goals, and tells how the student would contribute to the program.

Political science--international relations: The M.A. degree in political science-- international relations is designed to provide professional education to those whose primary interest is a career in foreign relations. In this program, students must complete course work in the core of international relations theory and in two or more of the four major subfields of international relations, international political economy, international security, foreign policy, and international organization. The M.A. is a 36-hour degree, requiring successful completion of a 6-credit political science core sequence, 15 credits of departmental or extra-department electives, and a 15- credit international relations major. Students may pursue either a thesis option or take a comprehensive examination at the end of the program.

Law/Public Affairs joint degree program: This program culminates in the Master of Arts in political science and Juris Doctor degrees. A joint degree program culminating in the Master of Arts in political science international relations and Juris Doctor degrees is also available. The joint program enables students to earn both the J.D. and the M.A. in less time than would be required to earn both degrees consecutively. Full-time students who make satisfactory progress can usually earn both degrees in 4 years. Candidates for the joint degree program must meet the entrance requirements for, and be admitted to, both the College of Law and the Department of Political Science. These requirements include both the LSAT and the GRE. Students are encouraged to announce their intent of seeking a joint degree as soon as possible. The Department of Political Science will allow 12 hours of appropriate law school courses to be credited toward the M.A. degree. The 12 credits selected from the law curriculum must be approved by the Political Science graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in political science graduate courses to be credited toward the J.D. degree. Students in the joint degree program are permitted, but not required, to pursue a companion certificate program in public affairs, political campaigning, or international development policy and administration.

Combined bachelor's/master's degree program: This combined program is designed for superior students who have the ability to pursue an accelerated program leading to the Bachelor of Arts and the Master of Arts degrees in political science or political science international relations.

Up to 12 semester hours of approved graduate-level political science courses may be used as credit for both the undergraduate and graduate degree. Applicants to the program must present

- Acceptable scores on the verbal, quantitative, and analytical writing portions of the GRE
- Completion of at least 24 semester hours at the University of Florida (including at least 12 semester hours of political science) with a GPA of 3.7 or higher
- Letters of recommendation from two faculty members in the Department of Political Science

The combined program is not recommended for students considering a Ph.D. program in political science at UF but is appropriate for those considering one of the M.A. degree plus certificate programs described above. Further information concerning this program is available from the departmental undergraduate and graduate coordinators.

Degrees

Master of Arts

Master of Arts in Teaching

Political Science Departmental Courses

- CPO 5935: Advanced Topics in Comparative Politics
- CPO 6046: Politics in Advanced Industrial Societies
- CPO 6059: Democracy and Its Competitors
- CPO 6077: Social Movements in Comparative Perspective
- CPO 6091: Introduction to Comparative Political Analysis
- CPO 6206: Seminar in African Politics
- CPO 6307: Latin American Politics I
- CPO 6732: Democratization and Regime Transition
- CPO 6736: Post-Communist politics
- CPO 6756: Comparative Elections and Party Systems
- CPO 6757: The European Union In Comparative Perspective
- CPO 6786: Peasant Politics and Society
- CPO 6795: Environmental Politics
- CPO 6796: Water Politics
- INR 5935: Advanced Topics in International Relations
- INR 6036: Globalization, Regionalism, and Governance
- INR 6039: International Political Economy
- INR 6208: Advanced International Relations Theory
- INR 6213: Seminar: Politics of the European Union
- INR 6249: Inter-American Relations
- INR 6305: Politics of American Foreign Policy Making
- INR 6337: Survey of International Security
- INR 6352: International Environmental Relations
- INR 6507: International Organization
- INR 6607: International Relations Theory
- INR 6936: Seminar in Transnational and Global Studies
- INR 6938: Seminar in Culture and World Politics
- PAD 5935: Advanced Topics in Public Administration
- PAD 6108: Public Administration Theory
- PAD 6227: Public Budgeting and Finance
- PAD 6434: Leadership and Ethics in Public Agencies
- POS 6458: Politics of Campaign Finance
- PAD 6946: Internship in Government
- POS 5935: Advanced Topics in Political Science
- POS 6045: Seminar in American Politics
- POS 6048: American Political Development
- POS 6127: State Government and Politics
- POS 6146: Urban Politics
- POS 6157: Community Analysis
- POS 6196: Patrons, Clients, Corruption, and Accountability
- POS 6207: Political Behavior
- POS 6208: Empirical Political Research
- POS 6272: Political Participation
- POS 6274: Political Campaigning
- POS 6278: Advanced Campaign Strategy
- POS 6279: The Politics of Direct Democracy
- POS 6292: Religion and Politics
- POS 6427: Legislative Process
- POS 6453: Political Parties and Interest Groups
- POS 6476: Bureaucratic Politics in the U.S.
- POS 6707: Qualitative Research Methods for Political Science
- POS 6712: Empirical Theories of Politics

- POS 6716: Scope and Epistemologies of Political Science
- POS 6736: The Conduct of Inquiry
- POS 6737: Political Data Analysis
- POS 6747: Topics in Political Research Methodology
- POS 6757: Survey Research
- POS 6909: Individual Work
- POS 6910: Supervised Research
- POS 6933: Special Topics
- POS 6940: Supervised Teaching
- POS 6971: Research for Master's Thesis
- POS 7979: Advanced Research
- POS 7980: Research for Doctoral Dissertation
- POT 5935: Advanced Topics in Political Theory
- POT 6016: Ancient Political Thought
- POT 6056: Modern Political Thought
- POT 6067: Contemporary Political Theory
- POT 6306: Liberalism and Its Critics
- POT 6314: Democratic Theory
- POT 6416: The Marxist Tradition and its Critics
- POT 6505: Politics and Theory
- POT 6516: Political Judgment
- PUP 5935: Advanced Topics in Public Policy
- PUP 6006: Policy Evaluation
- PUP 6007: Policy Process
- PUP 6009: Public Policy Analysis
- PUP 6315: Race, Gender, and Politics

Psychology Department

[College of Liberal Arts and Sciences](#)

Chair: Lise Abrams

Graduate Coordinator: Julia A. Graber

Complete faculty listing by department: [Follow this link.](#)

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

For more information, please see the program page below and our website: <http://www.psych.ufl.edu>.

Other

Counseling Psychology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Psychology Department](#)

Degrees Offered with a Major in Counseling Psychology

Doctor of Philosophy

Psychology Departmental Courses

- CBH 6056: Comparative Psychology
- CLP 6169: Seminar: Psychology and Deviant Behavior
- CLP 7525: Best Methods for Studying Psychological Change
- DEP 6057: Advanced Developmental Psychology I
- DEP 6058: Advanced Developmental Psychology II

- DEP 6059: Seminar: Special Topics in Developmental Psychology
- DEP 6099: Survey of Developmental Psychology
- DEP 6216: Psychological Disturbances of Children
- DEP 6406: Advanced Adulthood and Aging
- DEP 6409: Seminar: Adult Development and Aging
- DEP 6799: Current Research Methods in Developmental Psychology
- DEP 6936: Current Research in Developmental Psychology
- DEP 7608: Theories of Developmental Psychology
- EAB 5436: Behavioral Pharmacology
- EAB 6099: Survey of Behavior Analysis
- EAB 6118: Theoretical Foundations of Behavior Analysis
- EAB 6707: Applied Behavior I
- EAB 6712: Experimental Psychopathology
- EAB 6716: Behavior Analysis in Developmental Disabilities
- EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research
- EAB 6750: Quantitative Methods
- EAB 6780: Ethics and Professional Issues
- EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior
- EAB 6939: Seminar: Special Topics in Applied Behavior Analysis
- EAB 7089: Advanced Seminar: Experimental Analysis of Behavior
- EAB 7090: Verbal Behavior
- EXP 6099: Survey of Cognition and Sensory Processes
- EXP 6609: Seminar: Cognition
- EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes
- GEY 7408: Psychotherapy with Older Adults
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 7431: Advanced Family Counseling
- PCO 6057: Psychology of Counseling I
- PCO 6058: Psychology of Counseling II
- PCO 6059: Psychology of Counseling III
- PCO 6278: Diversity and Multiculturalism in Counseling Psychology
- PCO 6316C: Psychological Assessment I
- PCO 6317C: Psychological Assessment II
- PCO 6931: History and Contemporary Issues in Counseling Psychology
- PCO 6939: Seminar: Current Topics in Counseling Psychology
- PCO 7217: Professional Ethics and Skills in Counseling Psychology
- PCO 7247: Group Counseling/Psychology
- PCO 7537: Vocational Psychology
- PCO 7944: Practicum in Counseling Psychology
- PCO 7945: Advanced Practicum in Counseling Psychology
- PCO 7949: Internship in Counseling Psychology
- PPE 6059: Seminar in Personality
- PSB 5445: Drug Use and Abuse
- PSB 5935: Seminar in Physiological Psychology
- PSB 6082: Neuroethology
- PSB 6087: Advanced Physiological Psychology
- PSB 6088L: Behavioral Neurobiology
- PSB 6099: Survey of Physiological and Comparative Psychology
- PSB 7248: Neurobehavioral Relations
- PSB 7249: Seminar in Neural Mechanisms and Behavior
- PSY 6608: History of Psychology
- PSY 6905: Individual Work
- PSY 6910: Supervised Research
- PSY 6930: Topics in Psychology
- PSY 6939: Seminar: The Teaching of Psychology
- PSY 6940: Supervised Teaching
- PSY 6971: Research for Master's Thesis
- PSY 7979: Advanced Research
- PSY 7980: Research for Doctoral Dissertation
- SOP 6099: Survey of Social Psychology
- SOP 6219C: Advanced Research Techniques in Social-Personality Psychology
- SOP 6409: Seminar: Current Topics in Social-Personality Psychology
- SOP 6419: Seminar: Attitudes and Social Cognition
- SOP 6509: Seminar: Interpersonal Relations and Group Processes
- SOP 6929: Colloquium on Research in Social-Personality Psychology

Psychology (Psychology - CLAS)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Psychology Department](#)

Psychology Program Information

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

Doctoral areas of specialization include the research areas of developmental, behavior analysis, behavioral and cognitive neuroscience, social psychology, and counseling psychology. The training program in counseling psychology is accredited by the American Psychological Association. A predoctoral internship of one year is required for the counseling psychology program.

Undergraduate preparation should include at least one course in experimental methods and one course in statistics. Other courses in psychology should include at least three or four of the following: cognition, developmental, learning, personality, physiological, sensory, and social. Applicants should have competitive GRE scores and GPA (3.5 or higher).

Co-major: The Department offers a co-major program in conjunction with the College of Education leading to the Doctor of Philosophy degree in psychology and research and evaluation methodology.

Degrees

Doctor of Philosophy

without a concentration

concentration in Women's/Gender Studies

Master of Arts

Master of Science

without a concentration

Psychology Departmental Courses

- CBH 6056: Comparative Psychology
- CLP 6169: Seminar: Psychology and Deviant Behavior
- CLP 7525: Best Methods for Studying Psychological Change
- DEP 6057: Advanced Developmental Psychology I
- DEP 6058: Advanced Developmental Psychology II
- DEP 6059: Seminar: Special Topics in Developmental Psychology
- DEP 6099: Survey of Developmental Psychology
- DEP 6216: Psychological Disturbances of Children
- DEP 6406: Advanced Adulthood and Aging
- DEP 6409: Seminar: Adult Development and Aging
- DEP 6799: Current Research Methods in Developmental Psychology
- DEP 6936: Current Research in Developmental Psychology
- DEP 7608: Theories of Developmental Psychology
- EAB 5436: Behavioral Pharmacology
- EAB 6099: Survey of Behavior Analysis
- EAB 6118: Theoretical Foundations of Behavior Analysis
- EAB 6707: Applied Behavior I
- EAB 6712: Experimental Psychopathology
- EAB 6716: Behavior Analysis in Developmental Disabilities
- EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research

- EAB 6750: Quantitative Methods
- EAB 6780: Ethics and Professional Issues
- EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior
- EAB 6939: Seminar: Special Topics in Applied Behavior Analysis
- EAB 7089: Advanced Seminar: Experimental Analysis of Behavior
- EAB 7090: Verbal Behavior
- EXP 6099: Survey of Cognition and Sensory Processes
- EXP 6609: Seminar: Cognition
- EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes
- GEY 7408: Psychotherapy with Older Adults
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 7431: Advanced Family Counseling
- PCO 6057: Psychology of Counseling I
- PCO 6058: Psychology of Counseling II
- PCO 6059: Psychology of Counseling III
- PCO 6278: Diversity and Multiculturalism in Counseling Psychology
- PCO 6316C: Psychological Assessment I
- PCO 6317C: Psychological Assessment II
- PCO 6931: History and Contemporary Issues in Counseling Psychology
- PCO 6939: Seminar: Current Topics in Counseling Psychology
- PCO 7217: Professional Ethics and Skills in Counseling Psychology
- PCO 7247: Group Counseling/Psychology
- PCO 7537: Vocational Psychology
- PCO 7944: Practicum in Counseling Psychology
- PCO 7945: Advanced Practicum in Counseling Psychology
- PCO 7949: Internship in Counseling Psychology
- PPE 6059: Seminar in Personality
- PSB 5445: Drug Use and Abuse
- PSB 5935: Seminar in Physiological Psychology
- PSB 6082: Neuroethology
- PSB 6087: Advanced Physiological Psychology
- PSB 6088L: Behavioral Neurobiology
- PSB 6099: Survey of Physiological and Comparative Psychology
- PSB 7248: Neurobehavioral Relations
- PSB 7249: Seminar in Neural Mechanisms and Behavior
- PSY 6608: History of Psychology
- PSY 6905: Individual Work
- PSY 6910: Supervised Research
- PSY 6930: Topics in Psychology
- PSY 6939: Seminar: The Teaching of Psychology
- PSY 6940: Supervised Teaching
- PSY 6971: Research for Master's Thesis
- PSY 7979: Advanced Research
- PSY 7980: Research for Doctoral Dissertation
- SOP 6099: Survey of Social Psychology
- SOP 6219C: Advanced Research Techniques in Social-Personality Psychology
- SOP 6409: Seminar: Current Topics in Social-Personality Psychology
- SOP 6419: Seminar: Attitudes and Social Cognition
- SOP 6509: Seminar: Interpersonal Relations and Group Processes
- SOP 6929: Colloquium on Research in Social-Personality Psychology

Religion Department

Chair: Manuel A. Vasquez.

Graduate Coordinator: David G. Hackett

Complete faculty listing by department: [Follow this link.](#)

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the *General Information* section of this catalog.

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://religion.ufl.edu/graduate-studies/> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest:

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 15 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://religion.ufl.edu/graduate-studies/>.

Other

Religion

College

[College of Liberal Arts and Sciences](#)

Department/School

[Religion Department](#)

Religion Program

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://www.religion.ufl.edu> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 12 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://www.religion.ufl.edu>.

Degrees Offered with a Major in Religion

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Jewish Studies

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Courses

- REL 5***
- RLG 5143: Religion and Social Change
 - REL 5187
- RLG 5195: Topics in Religion and Society
 - REL 5199
- RLG 5297: Topics in Biblical Studies
- RLG 5338: Topics in Asian Religions
- RLG 5365: Studies in Islam
- RLG 5396: Religion and Animals
- RLG 5495: Topics in Religious Thought
- RLG 5549: Studies in Christianity
- RLG 5696: Topics in Jewish Thought
- RLG 5906: Individual Work
- RLG 5937: Topics in Religious Studies
 - REL 5xxxA
 - REL 5xxxB
 - REL 5xxxC
 - REL 6***
- RLG 6035: Method and Theory I
- RLG 6036: Method and Theory II
- RLG 6095: Utopias and Dystopias
- RLG 6107: Core Seminar in Religion and Nature
- RLG 6125: Religion and Politics in the Americas
- RLG 6129: Hindu Traditions in America
- RLG 6137: Religion in North America
- RLG 6138: New Religious Movements
- RLG 6126: Religion in the Americas
- RLG 6167: Radical Environmentalism
- RLG 6181: Ethics and the Natural Sciences
- RLG 6183: Religion and Environmental Ethics
- RLG 6187: Nature in Asian Religions
- RLG 6196: Globalizing the Sacred
- RLG 6319: Interpreting Asian Religions
- RLG 6339: Women in the Hindu Tradition
- RLG 6346: Buddhist Traditions
- REL 6347: American Buddhism

- REL 6368: Islam in Asia
- RLG 6310: Religion and Nature in South Asia
- RLG 6385: Native Religions in the Americas
- RLG 6387: Religions in Latin America
- REL 6397: Hindu Sacred Texts and Their Ritual Context
- RLG 6910: Supervised Research
- RLG 6940: Supervised Teaching
- RLG 6957: Overseas Studies in Religion
- RLG 6971: Research for Master's Thesis
 - REL 6xxxA
 - REL 6xxxB
- RLG 7979: Advanced Research
- RLG 7980: Research for Doctoral Dissertation
- SRK 6905: Individual Study in Sanskrit

Spanish and Portuguese Studies Department

Chair: G. Lord

Graduate Coordinator: L. Álvarez Castro

Complete faculty listing by department: [Follow this link.](#)

The Department of Spanish and Portuguese Studies offers a Master of Arts degree (M.A.) in Spanish (thesis and non-thesis options) and a Doctor of Philosophy degree (Ph.D.) in Romance Languages and Literatures, with a concentration in Spanish. Descriptions of the minimum requirements for both degrees are provided in the General Information section of this catalog. For specific information about the program, please visit the graduate section of the departmental webpage:

<http://www.spanishandportuguese.ufl.edu/spanish/graduate.html>

Candidates for graduate degrees (both M.A. and Ph.D.) in Spanish can choose between two specializations—literature/culture or linguistics. In conjunction with their master's or doctoral work, students may also earn a Certificate in Latin American Studies. Though a graduate degree is not offered in Portuguese, extensive course offerings at the graduate level permit students to develop a strong specialization in Portuguese language and Luso-Brazilian literature, film and culture.

The main prerequisite for admission to the M.A. program is an undergraduate major in Spanish, ideally including advanced courses in the proposed area of specialization. Applicants for the Ph.D. should hold an M.A. or equivalent degree in Spanish. At the discretion of the Graduate Studies Committee, candidates from related fields of study (History, Sociology...) may be offered a conditional admission into the Ph.D. program pending the passing of the M.A. Comprehensive Examination within the first year of study.

All M.A. and Ph.D. students in Spanish who are appointed as teaching assistants must take Romance Language Teaching Methods (FOL / [FOL 6943](#)). Besides, all M.A. and Ph.D. students specializing in literature and culture must take Introduction to Graduate Study and Research ([SPW 6806](#)). Other requirements vary with degree and specialization. For details, consult the graduate section of the departmental webpage (see above).

The Department is able to offer most students a teaching assistantship that provides a maintenance stipend and includes a tuition waiver. Contingent on positive performance in teaching and graduate work, M.A. students are guaranteed four semesters of support, and Ph.D. students are guaranteed eight semesters of support beyond the M.A. In addition, there are several fellowships, supplements and stipends for which students may apply, and summer teaching may be available.

Prospective students are encouraged to review the departmental webpage in order to familiarize themselves with the program and the application process. Only those applications including all required materials and submitted by the advertised deadlines will be considered. For any questions about the program or how to apply, please contact the graduate coordinator: jacastro@ufl.edu.

Highly qualified UF undergraduate students majoring in Spanish may apply for a combined B.A./M.A. program in Spanish that allows up to 12 graduate credits to be counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details.

Other

Romance Languages (Spanish and Portuguese Studies)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Spanish and Portuguese Studies Department](#)

Degrees Offered with a Major in Romance Languages

Doctor of Philosophy

concentration in Spanish

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Spanish

College

[College of Liberal Arts and Sciences](#)

Department/School

[Spanish and Portuguese Studies Department](#)

Degrees

Master of Arts

Master of Arts in Teaching

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
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- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
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- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
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- FOL 6943: Romance Language Teaching Methods
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- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
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- SPW 6729: The Generation of 1898

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- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Statistics Department

Chair: M. J. Daniels

Graduate Coordinator: J. P. Hobert

Complete faculty listing: [Follow this link.](#)

Graduate programs are available leading to Master of Science in Statistics, Master of Statistics, and Doctor of Philosophy degrees. Minimum requirements for these degrees are described in the *General Information* section of this catalog.

Both master's programs usually require 2 years of course work including material covered in [STA 6208](#), 6208, [STA 6326](#), [STA 6327](#), [STA 6246](#), and [STA 6329](#). In addition to earning a "Ph.D. pass" on the first-year evaluation, requirements for the Ph.D. degree include STA 6466, 6467, [STA 7249](#), and [STA 7346](#).

Interdisciplinary programs: The Department offers a co-major program in conjunction with the Fisher School of Accounting leading to the Doctor of Philosophy degree in statistics and business administration accounting. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Departments of Mathematics; Industrial and Systems Engineering; and Finance, Insurance, and Real Estate. For information on these programs, consult the departmental graduate coordinator.

Combined program: The Department offers a bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Statistics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Statistics Department](#)

Degrees Offered with a Major in Statistics

Doctor of Philosophy

without a concentration

concentration in Quantitative Finance

Master of Science in Statistics

Master of Statistics

Statistics Departmental Courses

- STA5106: Computer Programs in Statistical Analysis
- STA5223: Applied Sample Survey Methods
- STA5325: Fundamentals of Probability
- STA5328: Fundamentals of Statistical Theory
- STA5503: Categorical Data Methods
- STA5507: Applied Nonparametric Methods
- STA5701: Applied Multivariate Methods
- STA5715: Applied Survival Analysis
- STA5823: Stochastic Process Methods
- STA5856: Applied Time Series Methods
- STA6092: Applied Statistical Practice
- STA6126: Statistical Methods in Social Research I
- STA6127: Statistical Methods in Social Research II
- STA6166: Statistical Methods in Research I
- STA6167: Statistical Methods in Research II
- STA6177: Applied Survival Analysis
- STA6178: Genetic Data Analysis
- STA6207: Regression Analysis
- STA6208: Basic Design and Analysis of Experiments
- STA6209: Design and Analysis of Experiments
- STA6226: Sampling Theory and Application
- STA6246: Theory of Linear Models
- STA6326: Introduction to Theoretical Statistics I
- STA6327: Introduction to Theoretical Statistics II
- STA6329: Matrix Algebra and Statistical Computing
- STA6505: Analysis of Categorical Data
- STA6526: Nonparametric Statistics
- STA6707: Analysis of Multivariate Data
- STA6826: Stochastic Processes
- STA6857: Time Series Analysis
- STA6866: Monte Carlo Statistical Methods
- STA6905: Individual Work
- STA6910: Supervised Research
- STA6934: Special Topics in Statistics
- STA6938: Seminar
- STA6940: Supervised Teaching
- STA6942: Internship
- STA6971: Research for Master's Thesis
- STA7179: Survival Analysis
- STA7249: Generalized Linear Models
- STA7334: Limit Theory
- STA7346: Statistical Inference
- STA7347: Advanced Inference
- STA7348: Bayesian Theory
- STA7466: Probability Theory I
- STA7467: Probability Theory II
- STA7527: Theory of Nonparametric Statistics
- STA7828: Topics in Stochastic Processes
- STA7934: Special Topics in Statistics
- STA7979: Advanced Research
- STA7980: Research for Doctoral Dissertation

Women's Studies Department

Director: Bonnie Moradi

Graduate Coordinator: Kendal Broad

Complete faculty listing by department: [Follow this link.](#)

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as a two certificates. These options give students the opportunity to take advantage of scholarship in this dynamic field, and to become acquainted with different research perspectives and methodologies. Students become well grounded in theories of gender in cultural systems and in ways that gender intersects with other categories of difference such as race, ethnicity, religion, class, sexuality, nation, physical and mental ability, age, and economic and civil status. Faculty and students employ feminist and other appropriate theoretical approaches and methodologies.

The Center offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring. The Center in Ustler Hall houses archives, a small library, offices,

and meeting space.

For more information about our program, please see the program page below or our website: <http://web.wst.ufl.edu>.

Other

Women's Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Women's Studies Department](#)

Women's Studies Program Information

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as two certificates. The Center also offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring.

Master of Arts (thesis and non-thesis): The Center offers the Master of Arts (M.A.) thesis degree option, which requires the completion and defense of a thesis (30 credit hours), and the Master of Arts non-thesis degree option, which requires completion and defense of a project or paper (30 credit hours). All Master's students take a core curriculum of 9 graduate credits (3 courses). For the thesis M.A., the remaining 21 hours consist of 15 credits of approved electives and 6 thesis credits. For the non-thesis M.A., 21 credits of approved electives are required.

Required courses for all MA students (9 credits):

- [WST 5933: Proseminar in Women's Studies](#)
- [WST 6508: Advanced Feminist Theory](#)
- [WST 6935: Special Topics in Women's Studies](#)

Thesis

15 approved credits at 5000-level or higher

6 credits of [WST 6971: Research for Master's Thesis](#)

(3 of which must be taken in the final graduating term)

Total for MA thesis: 30 credits

Non-thesis

21 approved credits at 5000-level or higher;

at least 6 of these credits must be classes in WST.

Total for MA non-thesis: 30 credits

BA/ MA Program: UF offers a number of Bachelor's/Master's programs for superior students. The university created combined degree programs to provide academically talented students an opportunity to complete both a bachelor's and a master's degree in a shorter period of time. The program allows you to double-count graduate courses toward both degrees, thus reducing the time it would normally take to graduate by a semester or more. The combined-degree program reduces the cost of both degrees and enhances your marketability for career advancement.

Concurrent degree -MA in Women's Studies and an MA in Mass Communications (MAMC) with specialization in Journalism: When appropriate, the Center for Women's Studies and Gender Research will work with individual students to develop a collaborative degree program with the College of Journalism and Communication. At the University of Florida, students may apply to complete Master's degrees in two different programs or two Master's degrees in the same program concurrently. Those interested should discuss the proposed study with the office of Graduate Student Records (392-4643, 106 Grinter) before applying. Written approval is needed from each academic unit and the Graduate School Dean. The student must be officially admitted to both programs through regular procedures. No more than 9 credits from the first program may be applied toward the second.

MA/J.D. Joint Degree: The faculties of the Levin College of Law and Women's Studies in the College of Liberal Arts and Sciences have approved a joint degree program culminating in both a J.D. degree, awarded by the College of Law, and an M.A. degree (thesis or non-thesis), awarded by the College of Liberal Arts and Sciences. Under this joint degree program, a student can obtain both degrees in approximately one year less than it would take to obtain both degrees if pursued consecutively. A student must satisfy the curriculum requirements for each degree before either degree is awarded. At least 12 credits must be taken in each program. The graduate program in Women's Studies will accept 12 credits of appropriate professional courses toward the M.A. degree. The 12 credits selected from the professional curriculum must be approved by the Graduate Coordinator upon the recommendation of the student's graduate supervisory committee. Reciprocally, the law school will accept 12 credits of appropriate Women's Studies courses toward the satisfaction of the J.D. degree. Admission to the second program is required no later than the end of the third consecutive semester after beginning one degree of the joint degree program. A summer term is counted as a single semester.

Certificates (M.A. or Ph.D. level): Two graduate certificates in Women's Studies for master's and doctoral students are offered in conjunction with degree programs in other academic units. The Graduate Certificate in Women's Studies and the Graduate Certificate in Gender and Development require specific sets of course work, designed to give students a thorough grounding in the discipline. The Graduate Certificate in Women's Studies offers students a general overview of the field. The Graduate Certificate in Gender and Development allows students to focus on issues related to gender, economic development, and globalization.

Graduate courses in women's studies are also available from the following academic units or programs:

- Agricultural and Life Sciences
- Anthropology
- Counselor Education
- English
- History
- Journalism and Communication
- Languages, Literatures, and Cultures
- Latin American Studies
- Linguistics

- Medicine
- Philosophy
- Psychology
- Religion
- Sociology
- Teaching and Learning

For more information, please see our website: <http://web.wst.ufl.edu>.

Degrees Offered with a Major in Women's Studies

Master of Arts

Courses

- WST 5933: Proseminar in Women's Studies
- WST 6348: Ecofeminism
- WST 6508: Advanced Feminist Theory
- WST 6905: Independent Study
- WST 6935: Special Topics in Women's Studies
- WST 6936: Feminist Challenges to Disciplinary Paradigms
- WST 6946: Internship in Applied Women's Studies and Gender Research
- WST 6957: International Studies in Women's Studies and Gender Research
- WST 6971: Research for Master's Thesis

College of Medicine

Dean: M.L. Good

Complete faculty listings: [Follow this link](#).

The College of Medicine offers training opportunities leading to either the Doctor of Philosophy or Master of Science degree in medical sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For more information, please see our website: <http://med.ufl.edu>.

The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings. For further information, visit <http://idp.med.ufl.edu>.

[Departments and Programs within the College of Medicine](#)

[College of Medicine Courses](#)

Other

Genetics and Genomics

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Medicine](#)

Degrees Offered with a Major in Genetics and Genomics

Doctor of Philosophy

Doctor of Philosophy - Clinical and Translational Science

Courses

- AGR 6322: Advanced Plant Breeding
- ANG 6532: Molecular Genetics of Disease
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 7410: Advanced Gene Regulation
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5805: Computer Simulation Concepts
- CIS 6930: Special Topics in CIS
- COT 5405: Analysis of Algorithms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6920: Genetics Journal Colloquy
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- HOS 6201: Breeding Perennial Cultivars
- PCB 5065: Advanced Genetics
- PCB 5235L: Experiments in Immunology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6178: Genetic Data Analysis
- STA 6208: Basic Design and Analysis of Experiments
- STA 6329: Matrix Algebra and Statistical Computing
- STA 6934: Special Topics in Statistics
- STA 7979: Advanced Research
- STA 7980: Research for Doctoral Dissertation
- ZOO 6927: Special Topics in Zoology
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses

- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues

- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Medical Sciences

College

[College of Medicine](#)

Interdisciplinary Program in Biomedical Sciences

Dean: M. L. Good.

Associate Dean for Graduate Education: P. A. Gulig

Complete faculty listing [Follow this link](#).

The College of Medicine offers training opportunities leading to either the Doctor of Philosophy or Master of Science degree in medical sciences. Minimum requirements for these degrees are given in the General Information section of this catalog. The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings.

Interdisciplinary Program (IDP) in Biomedical Sciences

The goal of the IDP is to prepare students for a diversity of careers in research and teaching in academic and commercial settings, after completion of the Ph.D. in Medical Sciences. The program provides a modern, comprehensive graduate education in biomedical sciences while providing both maximum program flexibility and appropriate specialization for advanced training. The IDP represents a cooperative effort of six interdisciplinary advanced concentrations with participation of over 250 faculty members.

During the first semester of study, students undertake a common, comprehensive interdisciplinary core curriculum of classroom study and a responsible conduct of research course. During the second semester, students begin to focus their coursework in one or two concentrations. Throughout the first two semesters, students participate in at least three laboratory rotations in any of the laboratories of the IDP faculty members. The advanced concentration and the supervisory committee chair are chosen no later than the end of the spring semester to maximize flexibility and facilitate an informed decision. Students entering the advanced concentrations take more specialized courses that strengthen their knowledge of these disciplines. The advanced concentration curricula are flexible enough to allow students to integrate course work offered in other advanced concentrations. In addition, journal clubs and seminars associated with their research interests allow students to further augment their scientific development.

Prospective students should have strong backgrounds in biology including genetics, chemistry (organic, quantitative, and biochemistry), physics, and calculus. Demonstrated high motivation and a serious intention to pursue research-related careers are also important considerations. This is best accomplished by performing independent study in a research laboratory for at least a semester, with a year or more being preferred. For more information, write IDP, P.O. Box 100229, College of Medicine, Gainesville, FL 32610-0229. For expanded information about the IDP, visit <http://idp.med.ufl.edu>.

Advanced Concentration in Biochemistry and Molecular Biology

Directors: Robert McKenna and Kevin Brown

The Graduate Faculty of the biochemistry and molecular biology advanced concentration share an interest in the relationships between the structure of a biological macromolecule and the function of that molecule in the cell. The structure (encoded ultimately by the genome) sets the phenotype of the organism. The unifying theme among the Graduate Faculty is their approach to research: Each uses the techniques of biochemistry and molecular biology/genetics to characterize the function of a macromolecule and show how function (and the process it is part of) is determined by the structure of that molecule and its interactions with other macromolecules. Specific research directions range from physical determination of the molecular structure of proteins to regulation of cellular processes to the genetic mapping of disease loci.

For information about other programs and courses in this field, see the Department of Biochemistry and Molecular Biology listing.

Advanced Concentration in Biochemistry and Molecular Biology Courses

- BCH 6040: Research Discussion in Biochemistry and Molecular Biology
- BCH 6107: Biophysical Techniques in Proteomics and Protein Science
- BCH 6206: Advanced Metabolism
- BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control
- BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism
- BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems
- BCH 6744: Molecular Structure Determination by X-ray Crystallography
- BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy
- BCH 6746: Structural Biology: Macromolecular Structure Determination
- BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics
- BCH 6749C: Numerical Methods in Structural Biology
- BCH 6876: Recent Advances in Membrane Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- BCH 6936: Biochemistry Seminar
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics
- GMS 6195: Epigenetics Journal Club

Advanced Concentration in Cancer Biology

Directors: Dietmar Siemann and Maria Zajac-Kaye

The Cancer Biology Concentration (CBC) provides training opportunities in cancer research ranging from basic to translational. The program spans many disciplines, including molecular and cell biology, genetics and epigenetics, biochemistry, microbiology, pharmacology, anatomy, pathology, epidemiology, bioinformatics, immunology and many others involved in the understanding of the development, progression, dissemination, and treatment of cancer.

Students in the will have opportunities to work with outstanding cancer investigators in state of the art facilities. Through combinations of courses, seminars, small group discussions, and an interdisciplinary approach to research, the program allows students to gain a unique understanding of cancer and to build a firm foundation upon which they can build careers in academia, government, and biotech and pharmaceutical industry.

For more information please see our website: <http://idp.med.ufl.edu/about/cancer-biology-concentration>

Advanced Concentration in Cancer Biology Courses

- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6009: Principles of Drug Action
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6090: Research in Medical Sciences
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6338: Recent Advances in Cancer Metastasis
- GMS 6421: Cell Biology
- GMS 6644: Apoptosis
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 6691: Special Topics in Cell Biology and Anatomy
- GMS 6812: Cancer Health Outcomes Assessment
- GMS 6818: Design and Conduct Clinical Trials I
- PHC 6937: Special Topics in Public Health

Advanced Concentration in Genetics

Director: M. R. Wallace

The concentration in genetics offers graduate training in all facets of modern molecular genetics including bacterial, viral, lower eukaryotic, mouse, developmental, and human genetics. The courses listed are taught in a 5-week modular format.

Advanced Concentration in Genetics Courses

- BCH 7410: Advanced Gene Regulation
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6181: Special Topics in Microbiology
- GMS 6195: Epigenetics Journal Club
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6506: Biologic Drug Development
- GMS 6920: Genetics Journal Colloquy
- GMS 7192: Journal Colloquy

Advanced Concentration in Health Outcomes and Policy

The University of Florida's Master of Science in Medical Sciences, with a concentration in Health Outcomes and Policy, is a specialized degree designed to put its graduates at the forefront of innovative research to develop, implement, and evaluate clinical and community-based programs that promote health and health outcomes. Throughout the curriculum, special emphasis is placed on health disparities and vulnerable populations. In addition to traditional graduate students, our program is available to medical students, post-doctoral researchers, fellows, residents, Ph.D. students, and junior faculty.

We also offer a 16-credit graduate certificate designed to complement other concurrent courses of study and to provide continuing education opportunities for faculty. The certificate can be completed in one year on a part-time basis.

Advanced Concentration in Health Outcomes and Policy Courses

- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6802: Examining Health Outcomes for Chronic Diseases in Clinical and Community-based Research
- GMS 6803: Data Management for Clinical Research
- GMS 6804: Medical Informatics
- GMS 6811: Grant Writing Skills for Clinical Research
- GMS 6812: Cancer Health Outcomes Assessment
- GMS 6816: Pediatric Child Health Outcomes Assessment for Clinical and Community-Based Research
- GMS 6821: Measuring and Analyzing Health Outcomes I
- GMS 6822: Measuring and Analyzing Health Outcomes II
- GMS 6826: Advanced Design and Methodology for Case-Control Studies in Clinical Research
- GMS 6829: Longitudinal Research Design
- GMS 6830: Health Outcomes Research and Policy Development
- GMS 6832: Economic Methods for Evaluating Value in Health
- GMS 6833: Health Care Policy and Vulnerable Populations
- GMS 6834: Health Policy and Formulation of Payment Mechanisms for Health Care
- GMS 6835: Health Policy Issues in Children's Health
- GMS 6842: Translational Research Methods
- GMS 6844: Experimental and Quasi-Experimental Research Designs for Community Settings
- GMS 6846: Meta-Analysis in Clinical, Health Services Research and Public Health
- GMS 6851: Health Outcomes Research
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6853: Applied Topics in Dissemination and Implementation Science
- GMS 6854: Applied Topics in Clinical Effectiveness Research
- GMS 6881: Special Studies in Epidemiology and Health Policy Research
- GMS 6882: Directed Readings in Epidemiology and Health Policy
- GMS 6883: Practicum Experience in Epidemiology and Health Policy
- GMS 6884: Research in Epidemiology and Health Policy
- GMS 6885: Research Designs in Health Outcomes and Policy
- GMS 6893: Clinical and Translational Science Seminar Series
- GMS 6896: Health Outcomes and Policy Seminar

Advanced Concentration in Immunology and Microbiology

Directors: R. C. Condit and C. E. Mathews

The concentration in immunology and microbiology offers graduate training in cellular and molecular immunology (including immunopathology, immunogenetics, and autoimmunity) and in microbiology (including virology, bacteriology, microbial genetics, and microbial pathogenesis). The courses listed are taught in a 5-week modular format.

Advanced Concentration in Immunology and Microbiology Courses

- VME 6505: Autoimmunity
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6193: Research Conference in Oral Biology
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6921: Immunology/Microbiology Journal Colloquy
- GMS 7192: Journal Colloquy
- VME 6934: Topics in Veterinary Medical Sciences

Advanced Concentration in Molecular Cell Biology

Director: Alexander Ishov

Co-Director: Maria Zajac-Kaye

The advanced concentration in molecular cell biology (MCB) prepares investigators for careers in biomedical research in academic or industrial settings. This multidisciplinary specialization has more than 50 participating faculty members and offers an extraordinary range of opportunities for advanced study of life at the molecular and cellular levels. The Graduate Faculty share common interests in the molecular interactions that account for functionally integrated subcellular, cellular, and tissue organization found in living organisms. The model systems in use range from yeast and cellular slime molds through *Drosophila* to birds and mammals. These systems are manipulated and analyzed using a wide range of powerful molecular, genetic, protein chemical, immunological, pharmacological, nuclear magnetic resonance (NMR), and microscopic imaging strategies. Students who select MCB take advanced course work and initiate independent research during the second year. This approach provides broad-based vision early in the program and the appropriate degree of specialization later on.

Advanced Concentration in Molecular Cell Biology Courses

- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6013: Developmental Genetics
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6381: Special Topics in Pathology
- GMS 6417: Integrative Aging Physiology
- GMS 6421: Cell Biology
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6644: Apoptosis
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6691: Special Topics in Cell Biology and Anatomy
- GMS 6692: Research Conference in Anatomy and Cell Biology

Advanced Concentration in Neuroscience

Directors: W. J. Streit and J. L. Bizon

The Graduate Faculty associated with the neuroscience advanced concentration have expertise in neuroanatomy, molecular and cellular neurobiology, neurodevelopment and aging, neurotransmitter chemistry and pharmacology, neuroendocrinology and neuroimmunology, cellular and molecular neuro-oncology, cellular and membrane neurophysiology, somatosensory and motor systems, transplantation neurobiology, injury and repair of the CNS, and neurobehavioral sciences. Study in marine vertebrate and invertebrate neurobiology is available through Graduate Faculty at the Whitney Laboratory.

Advanced Concentration in Neuroscience Courses

- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6023: Principles of Neuroscience III – Molecular Neuropharmacology and its Clinical Application
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6705: Functional Human Neuroanatomy
- GMS 6709: Current Topics in Vision
- GMS 6711: Neurobiology of Pain
- GMS 6750: Molecular Pathobiology of Neural Disease
- GMS 6760: Comparative Biology of Cell Signaling
- GMS 6791: Visual Neuroscience Journal Club
- GMS 6792: Neuroscience Graduate Research Seminar
- GMS 7794: Neuroscience Seminar
- GMS 7795: Special Topics in Neuroscience

Advanced Concentration in Oral Biology

Chair: R. A. Burne

Graduate Coordinator: J. Brady

The Department of Oral Biology, a unit of the College of Dentistry, offers graduate study leading to the degree of Doctor of Philosophy as part of the College of Medicine's Interdisciplinary Program (IDP) in Biomedical Sciences. The work is designed to provide the degree candidate with a strong background in basic biological principles relevant to the various subspecialties of oral biology, as well as specialized training in various aspects of the diseases and disorders of the oral cavity.

Areas of emphasis include application of microbiological, immunological, cellular, and molecular biological concepts and technologies to answer questions about host-pathogen interactions in oral disease; vaccine development; oral microbial physiology; oral bacterial biofilm biology; saliva and salivary gland biology; microbial antibiotic resistance; and autoimmune diseases. More information is available at <http://dental.ufl.edu/departments/oral-biology/>.

Prerequisites for admission in addition to those of the Graduate School include a broad base of courses in mathematics, physics, organic and analytic chemistry, advanced biology, biochemistry, molecular biology, and statistical methods. Specific requirements can be obtained from the Graduate Coordinator or the IDP office.

Oral Biology Departmental Courses

- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6176: Biology of Tooth Supporting Structures I
- GMS 6177: Biology of Tooth Supporting Structures II
- DEN 6680: Principles and Craniofacial Biology and Emerging Therapies
- DEN 6681: Craniofacial Pathobiology
- GMS 7179: Journal Colloquy

Advanced Concentration in Physiology and Pharmacology

Directors: J. K. Harrison and H. Kasahara

The Graduate Faculty associated with this advanced concentration have expertise in a variety of disciplines, including molecular and cellular biology, pharmacology, physiology, neuroscience, and biochemistry. These faculty bring together unique strengths to provide the students with diverse training. Students may train in laboratories involved in cardiovascular, neuro, endocrine, and developmental physiology; pharmacology; and toxicology. Students conduct research at the molecular, cellular, and integrative levels. Many of the faculty are involved in multidisciplinary, collaborative research efforts that aim to understand basic physiological mechanisms and pathophysiological processes (e.g., cardiovascular, neurodegenerative, and neoplastic diseases).

Advanced Concentration in Physiology and Pharmacology Courses

- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

Core Courses--IDP

- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6090: Research in Medical Sciences
- GMS 6901: Seminar in Biology of Disease
- GMS 7003: Responsible Conduct of Biomedical Research
- GMS 7593: Topics in Pharmacology and Toxicology

General and Advanced Courses

- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6090: Research in Medical Sciences
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6872: Science and Ethics of in Vitro Fertilization
- GMS 6905: Independent Studies in Medical Sciences
- GMS 6910: Supervised Research
- GMS 6931: Ethical and Policy Issues in Clinical Research
- GMS 6940: Supervised Teaching
- GMS 6971: Research for Master's Thesis
- GMS 7001: Fundamentals of Biomedical Science Education
- GMS 7002: Practicum in Biomedical Science Education
- GMS 7003: Responsible Conduct of Biomedical Research
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation

Other Interdisciplinary Doctoral Concentrations Offered

The interdisciplinary emphasis on vision sciences is also discussed in the Interdisciplinary Graduate Studies section. The program director is Dr. W. Clay Smith, P.O. Box 100284 College of Medicine, Gainesville, FL 32610 or (352) 392-0476.

Interdisciplinary study in toxicology is coordinated by the Center for Environmental and Human Toxicology and is concerned with the effects of chemicals on human and animal health. Additional information is given in the Interdisciplinary Graduate Studies section of this catalog or may be obtained from the codirector, Dr. Colin Summers, P.O. Box 100215, College of Medicine, Gainesville, FL 32610 or (352) 392-0740.

Degrees Offered with a Major in Medical Sciences

Doctor of Philosophy

without a concentration

concentration in Biochemistry and Molecular Biology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Cancer Biology

concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Genetics

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Health Outcomes and Policy

optional second concentration in Clinical and Translational Science

concentration in Imaging Science and Technology

concentration in Immunology and Microbiology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Molecular Cell Biology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Neuroscience

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Physiology and Pharmacology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Toxicology

Master of Science

without a concentration

concentration in Clinical and Translational Science

concentration in Health Outcomes and Policy

concentration in Translational Biotechnology

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology

- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging

- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Biochemistry and Molecular Biology Department

Chair: James B. Flanagan.

Graduate Coordinator: Kevin Brown

Complete faculty listing by department: [Follow this link.](#)

Biochemistry and Molecular Biology Department faculty mentor Ph.D. students in the College of Medicine interdisciplinary program (IDP) in medical sciences. Students interested in pursuing a doctoral degree can view specific features of the biochemistry and molecular biology concentration at <http://biochem.med.ufl.edu/> and <http://idp.med.ufl.edu>. For admission information, visit the IDP website. Department faculty also mentor Ph.D. students in other college programs and participate actively in the research and teaching functions of various centers such as the Center for Epigenetics and the Center for Structural Biology. The Department offers a wide variety of courses for graduate students studying in the life sciences. The research expertise of the faculty spans the areas from cell biology, metabolism, and molecular biology to physical biochemistry/structural biology. Current research interests include viral protease inhibitors, viral RNA replication, bioenergetics and proton translocation, X-chromosome structure and function, cytoskeletal assembly and dynamics, enzyme mechanism and control, chromatin structure, gene expression and regulation, mitochondrial biogenesis and evolution, the genetics of inherited disease, nutrient membrane transporters, protein site-directed mutagenesis, ribosome structure and function, signal transduction, structural biology and dynamics of macromolecules, protein-nucleic acid interactions, transgenic animal models, and virus crystal structure. Prospective graduate students should have adequate training in chemistry and biology. Minor deficiencies may be made up immediately after entering graduate school. Previous undergraduate experience in a research laboratory is highly recommended. Doctoral students are required to take a core IDP course in fall term of their first year; and beginning in spring term, students take advanced classes in areas of interest. Specific advanced-level courses may be recommended by the student's supervisory chair and committee. The following courses are open to all graduate students and advanced undergraduates. Additional courses are listed in the Advanced Concentration in Biochemistry and Molecular Biology section under Medical Sciences.

Other

Biochemistry and Molecular Biology

College

[College of Medicine](#)

Department/School

[Biochemistry and Molecular Biology Department](#)

Degrees Offered with a Major in Biochemistry and Molecular Biology

Master of Science

Courses

- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6040: Research Discussion in Biochemistry and Molecular Biology

- BCH 6107: Biophysical Techniques in Proteomics and Protein Science
- BCH 6206: Advanced Metabolism
- BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control
- BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism
- BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems
- BCH 6744: Molecular Structure Determination by X-ray Crystallography
- BCH 6744L: Molecular Structure Determination by X-Ray Crystallography Laboratory
- BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy
- BCH 6745L: Molecular Structure and Dynamics by NMR Spectroscopy Laboratory
- BCH 6746: Structural Biology: Macromolecular Structure Determination
- BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics
- BCH 6749C: Numerical Methods in Structural Biology
- BCH 6876: Recent Advances in Membrane Biology
- BCH 6875: Crystallography and Cryo-Electron Microscopy
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- BCH 6905: Independent Studies in Biochemistry and Molecular Biology
- BCH 6910: Supervised Research
- BCH 6936: Biochemistry Seminar
- BCH 6971: Research for Master's Thesis
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- BCH 7414: Advanced Chromatin Structure
- BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics
- BCH 7979: Advanced Research
- BCH 7980: BioChem Doctoral Research

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
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- GMS 6033: Immunity in Health and Disease
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- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
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- GMS 6051: Signal Transduction
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- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology

- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylogenetics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
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- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: P. Qiu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/curriculum-overview/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/ms-curriculum-overview/>.

Other

Biostatistics (Medicine)

College

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Department

[Biostatistics Department](#)

Degrees

Doctor of Philosophy

Master of Science

Biostatistics Departmental Courses

- GMS 6818: Design and Conduct Clinical Trials I
- GMS 6819: Design and Conduct Clinical Trials II
- GMS 6827: Advanced Clinical Trial Methods
- GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6020: Clinical Trial Methods
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6050C: Biostatistical Methods I
- PHC 6051: Biostatistical Methods II
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
- PHC 6080: SAS for Public Health - Data
- PHC 6081: SAS for Public Health - Analysis
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6937: Special Topics in Public Health
- PHC 6946: Public Health Internship
- PHC 7013: Bias in Observational Research
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7925: Biostatistics Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- STA 5223: Applied Sample Survey Methods
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 5503: Categorical Data Methods
- STA 5701: Applied Multivariate Methods
- STA 5715: Applied Survival Analysis
- STA 6092: Applied Statistical Practice
- STA 6166: Statistical Methods in Research I
- STA 7249: Generalized Linear Models
- STA 7346: Statistical Inference

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology

- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
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- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
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- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
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- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
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- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
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- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
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- GMS 6410: Physiology of the Circulation of Blood
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- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology

- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
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- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.php.ufl.edu>.

Other

Epidemiology (Medicine)

College

[College of Medicine](#)

Department

[Epidemiology Department](#)

Epidemiology Program Information

The **Ph.D. in Epidemiology program** is in the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The program requires a minimum of 90 semester credits beyond the bachelor's degree. All students must complete a minimum of 9 credits in Epidemiology foundation course work, at least 36 credits of epidemiology core courses, 6 credits of statistics electives, 18 credits of epidemiology electives, 15 credits of general electives, and 12 credits of dissertation research. Students must also complete at least two mentored teaching experiences. All entering students who do not hold MPH or equivalent degrees are also required by the College of Public Health and Health Professions to complete an Introduction to Public Health course.

Students in the Ph.D. program in Epidemiology are admitted to work with a research mentor on that mentor's project, and that research mentor funds the student. Other funding sources are available such as the Graduate School and the Department.

The core course work is designed to incorporate competencies recommended in the report of the 2002 workshop on doctoral education in epidemiology from the American College of Epidemiology and the Association of Schools and Programs of Public Health, and criteria for applied epidemiology competencies. The overall outcomes expected of all graduates are as follows:

1. Apply epidemiological methods to address critical and/or emerging public health issues through the use of:
 - Appropriate epidemiological research designs
 - Advanced statistical analysis methods for health studies
 - Data structures and measurement methods for health research
 - Biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being
 - Depth of knowledge in an area of specialization
2. Assimilate the history, philosophy, and ethical principles of epidemiology into current research
3. Develop grant proposals and manage research projects
4. Write scientific papers for publication in peer-reviewed journals, and communicate research results to scientists, policy makers, and the public
5. Compete successfully for research and teaching positions in academic institutions, federal or state agencies, or private institutions.

Details of the Ph.D. in Epidemiology program and application information are available at our website: <http://epidemiology.php.ufl.edu/about/ph-d-in-epidemiology-2>.

The **Master of Science in Epidemiology** degree is offered by the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The 36 credit program prepares students for careers in the public health arena that are focused on the surveillance and prevention of illnesses among diverse populations around the world. Students are trained in the foundational aspects of epidemiology including person, place and time, risk and protective factors, and the social determinants of health. Areas of focus include: chronic disease, infectious disease, geriatric, environmental, psychiatric, social, cancer and maternal and child health epidemiology.

Graduates of the M.S. in Epidemiology program are trained to:

- Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to areas of interest,
- Choose appropriate measurement and analytic methods to study health and disease in a population,
- Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health.

The program consists of required coursework and the successful completion of a thesis. The thesis is required to demonstrate skill in independent inquiry and investigation, under the tutelage of a mentor. Students may complete the course in three semesters with 36 credits.

More program information, including specific course requirements and elective options, is described at the program website: <http://epidemiology.php.ufl.edu/about/masters-of-science-in-epidemiology/mse-curriculum-2>.

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Science

Epidemiology (PHHP/COM) Departmental Courses

- GMS 6820: Advanced Epidemiology Methods
- PHC 6008: Cardiovascular Epidemiology
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6034: Epidemic Investigation
- PHC 6070: Epidemiology of Aging
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7007: Cancer Epidemiology
- PHC 7038: Psychiatric Epidemiology
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7427: Ethics in Population Science
- PHC 7727: Grant Writing for Population Health Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7902: Epidemiology Supervised Research Writing Circle
- PHC 7910: International Field Epidemiology
- PHC 7916: National Field Epidemiology
- PHC 7934: Seminar I: Epidemiology Past, Present, and Future
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
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- GMS 6099: Foundations in Aging and Geriatric Research
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- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
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- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
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- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Health Outcomes and Policy Department

[College of Medicine](#)

Chair: Betsy Shenkman

Graduate Coordinator: Jill Hemdon

Complete faculty listing by department: [Follow this link.](#)

Students can pursue either a Master of Science degree or a Graduate Certificate.

There is increasing emphasis on assessing health outcomes throughout the lifespan in a variety of health care and community settings. Nationally, the National Institute of Health and other federal and state agencies focus on the development of evidence-based programs to promote health, improve health care delivery, and enhance health outcomes.

Outcomes research generates evidence that informs health care program design in clinical and community settings, the promotion of effective clinical and community interventions, quality of care, cost-effective and clinically appropriate choices for patients in allocation of health care resources (clinical effectiveness), and incorporation of best practice models into health-related programs and policies. Outcomes research also provides mechanisms to understand how to translate research into practice and policy, how to improve the quality and efficiency of health programs, and how to achieve equitable and appropriate delivery of health programs and clinical care, particularly for underserved and vulnerable populations.

Our graduate programs are designed to train professionals in the health care and health research fields about the science that supports the development and evaluation of evidence-based clinical and community-based programs focused on improving health outcomes. Further, our programs emphasize methods for translating research into practice and policy. The unique combination of courses offered through these graduate programs will give trainees the tools needed to examine health outcomes and policies in a variety of settings across different age spans and to examine the individual, social, health system, and health policy factors that influence health outcomes.

In addition to traditional graduate students, both programs are available to medical students, post-doctoral students, fellows, residents, Ph.D. students, and junior faculty.

Molecular Genetics and Microbiology Department

Chair: H. V. Baker.

Graduate Coordinator: A. S. Lewin.

Complete faculty listing by department: [Follow this link.](#)

The Graduate Faculty of the Department of Molecular Genetics and Microbiology participate in the interdisciplinary program (IDP) in medical sciences, leading to the Doctor of Philosophy degree, with specialization in one of the six advanced concentration areas of the IDP (see *Medical Sciences*). Departmental areas of research associated with the IDP focus on topical problems in molecular genetics, viral genetics, and viral and bacterial pathogenesis. Faculty in the Department of Molecular Genetics and Microbiology also participate in the M.S. programs (see *Medical Sciences*). In addition to courses associated with the IDP, the Department of Molecular Genetics and Microbiology maintains the courses listed below.

Biotechnology: This Master of Science program is for students seeking careers in the biomedical industry as research or managerial associates; students seeking careers as teachers or educators at any level, but primarily high school or junior college; or students seeking an in-depth understanding of modern biology and scientific research as an end in itself or in preparation for further graduate study. The foundation of the M.S. program is a basic understanding of molecular and cell biology and the performance of a high-quality research project, culminating in a thesis, under the direction of a skilled mentor, with supervision by a committee composed of members of the Graduate Faculty. Specialization may be in any of the fields of research being pursued at the College of Medicine including but not limited to molecular genetics, gene therapy, bacterial or viral pathogenesis, protein structure, toxicology, mammalian genetics, wound healing, and congenital eye diseases.

For more information contact the Master's Program Coordinator, Molecular Genetics and Microbiology, P.O. Box 100266, College of Medicine, Gainesville, FL 32610, Telephone (352)392-3314.

Other

Molecular Genetics and Microbiology

College

[College of Medicine](#)

Department/School

[Molecular Genetics and Microbiology Department](#)

Courses

- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6169: Antimicrobial Strategies
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6251: Molecular Therapy I – Vectors and Molecular Mechanisms
- GMS 6252: Molecular Therapy II – Disease Targets and Applications
- GMS 6253: Molecular Therapy III – Immunology of Gene Transfer
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6338: Recent Advances in Cancer Metastasis
- GMS 6506: Biologic Drug Development
- GMS 6920: Genetics Journal Colloquy
- GMS 6921: Immunology/Microbiology Journal Colloquy
- GMS 6943: Master's Translational Biotechnology Internship
- GMS 7093: Introduction to Clinical and Translational Research
- GMS 7191: Research Conference
- GMS 7192: Journal Colloquy
- GMS 7194: Biotechnology Seminar
- PCB 5235L: Experiments in Immunology

Degrees

Doctor of Philosophy - Mammalian Genetics

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management

- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylogenetics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology

- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

College of Nursing

Dean: A.M. McDaniel

Complete faculty listings: [Follow this link.](#)

The nationally ranked College of Nursing offers the graduate degrees of Master of Science in Nursing, Doctor of Nursing Practice, and Doctor of Philosophy in nursing sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Students may request special review by the College of Nursing Admissions Committee if they believe they are strong candidates for graduate study but do not fully meet all criteria.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal. Additional offerings include

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader

For additional information about the Nursing programs, visit <http://www.nursing.ufl.edu> or call (352) 273-6331.

[College of Nursing Courses](#)

Other

Nursing

College

[College of Nursing](#)

Master of Science in Nursing (MSN)

The master's degree prepares nurses for advanced practice, clinical nurse specialist, or to be a clinical nurse leader. The graduate nursing core includes nursing theory, research, statistics, health policy, ethics, finance, and health promotion. The advanced practice core includes specific theory and clinical courses with relevant clinical experiences.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal.

Additional offerings include:

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader
- Graduates are eligible for Florida licensure and national certification.

To be considered for the M.S.N. program, students must meet the following minimum requirements:

- Bachelor of Science in Nursing degree with an upper-division grade point average of 3.0 or higher from a CCNE or NLN AC accredited program
- A score of 500 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination (GRE) General Test. In the new version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section. Analytical writing section is optional.
- Eligibility for licensure to practice as a registered nurse in the state of Florida

For application materials:

http://www.nursing.ufl.edu/prospective/prospective_msn_application_process.shtml

Degrees

Master of Science in Nursing

without a concentration

College of Nursing Courses

- NGR 5934: Cultural Influences on Health Care
- NGR 6002C: Advanced Health Assessment
- NGR 6006: Principles of Clinical Outcomes Management
- NGR 6054C: Advanced Neonatal Health Assessment and Diagnostic Reasoning
- NGR 6052C: Adult Nursing: Diagnostics and Procedures
- NGR 6101: Theory and Research for Nursing
- NGR 6140: Physiology and Pathophysiology for Advanced Nursing Practice
- NGR 6172: Pharmacotherapeutics for Advanced Practice Nursing
- NGR 6892: Health Care Policy and Organizational Delivery
- NGR 6230C: Acute Care Nurse Practitioner: Diagnostics and Procedures for the Critically Ill
- NGR 6240: Primary Care for Adults
- NGR 6241: Adult Nursing: Common Health Problems
- NGR 6241L: Adult Nurse Practitioner: Common Health Problems Laboratory
- NGR 6243: Acute Care Nurse Practitioner: Critically Ill Adult
- NGR 6243L: Acute Care Nurse Practitioner: Critically Ill Adult Laboratory
- NGR 6244: Adult Nursing: Chronic Health Problems
- NGR 6244L: Adult Nurse Practitioner: Chronic Health Problems Laboratory
- NGR 6247: Complex High Prevalence Illnesses Of Adults
- NGR 6247L: Complex High Prevalence Illnesses Of Adults

- NGR 6248: Adult Acute Care Nurse Practitioner 3
- NGR 6248L: Adult Acute Care Nurse Practitioner 3
- NGR 6255: Advanced Nursing Care of Older Adult
- NGR 6301: Advanced Child Health Nursing I
- NGR 6301L: Advanced Child Health Nursing I
- NGR 6302: Advanced Child Health Nursing II
- NGR 6302L: Advanced Child Health Nursing II
- NGR 6307: Advanced Child Health Nursing III
- NGR 6307L: Advanced Child Health Nursing III
- NGR 6320C: Neonatal Care I
- NGR 6321C: Neonatal Care II
- NGR 6323C: Neonatal Care III
- NGR 6350: Family Nurse Practitioner: Women, Adolescents, And Children
- NGR 6350L: Family Nurse Practitioner: Women, Adolescents, And Children
- NGR 6360C: Nurse-Midwifery Care I
- NGR 6361C: Nurse-Midwifery Care II
- NGR 6364: Seminar: The Nurse Midwife
- NGR 6371: Pharmacotherapeutics for Advanced Neonatal Nursing
- NGR 6372C: Advanced Pediatric Procedures and Diagnostics
- NGR 6500C: Individual and Family Therapy for Psychiatric-Mental Health Nursing
- NGR 6501C: Group Therapy and Community Interventions for Psychiatric-Mental Health Nursing
- NGR 6538: Psychopharmacology for Psychiatric Nursing
- NGR 6612: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
- NGR 6612L: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
- NGR 6636: Wellness Promotion and Disease Prevention
- NGR 6726: Management of the Care Environment II
- NGR 6727: Management of the Care Environment I
- NGR 6740: Role Transition: Issues in Advanced Practice Nursing
- NGR 6770: Leadership/Role of Clinical Nurse Leader
- NGR 6771: Clinical Nurse Leader Role Seminar
- NGR 6773: Clinical Nurse Leader Residency/Internship
- NGR 6815: Foundations of Qualitative Research in Nursing
- NGR 6840: Applied Statistical Analysis I
- NGR 6845: Applied Statistical Analysis II
- NGR 6850: Research Methods and Utilization for Nursing
- NGR 6905: Individual Study
- NGR 6941: Practicum in Nursing
- NGR 6930: Special Topics in Nursing
- NGR 6944: Individual Clinical Practice
- NGR 6970: Research for Master's Project
- NGR 6971: Research for Master's Thesis
- NGR 7176: Advanced Topics in Pharmacotherapeutics in Nursing
- NGR 7816: Quantitative Research Design and Measurement in Nursing
- NGR 7003: Advanced Diagnostic Reasoning
- NGR 7115: Philosophy of Nursing Science
- NGR 7124: Theory Development in Nursing
- NGR 7700: Leadership and Role Development in Advanced Nursing Practice
- NGR 7709: Nurse Scientist and Scholar I
- NGR 7814: Field Methods for Health Related Research
- NGR 7827: Outcomes Research and Evaluation
- NGR 7831: Quality Indicators in Nursing Systems
- NGR 7835: Nurse Scientist and Scholar II
- NGR 7871: Nursing Informatics and Data
- NGR 7882: Ethical Theories and Rational Decision Making in Health
- NGR 7891: Health Policy and Finance in Advanced Nursing Practice
- NGR 7940L: Residency in Advanced Nursing Practice
- NGR 7970L: Advanced Nursing Project
- NGR 7979: Advanced Research
- NGR 7980: Research for Doctoral Dissertation

Nursing Sciences

College

[College of Nursing](#)

Nursing Sciences Program

Chairs: S. Schaffer, M.J. Snider, and J. Stechmiller
Graduate Coordinator: J. Ballantyne

Complete faculty listing by department: [Follow this link.](#)

For more information about the Master of Science in Nursing and the Doctor of Nursing Practice, please visit [Graduate Degrees](#) or <http://www.nursing.ufl.edu>

The College's Ph.D. program prepares scientists, scholars, advanced practitioners, and leaders in nursing. Comprehensive research and practice preparation is achieved by pairing students with faculty. Students have access to an array of faculty members for interdisciplinary study, clinical practice, and research. Individually directed dissertation research is a major aspect of the Ph.D. program. Research in the College includes aging and health, women's health, bio-behavioral interventions, and health policy.

Progression in the program depends on the student's ability to meet academic standards and clinical competencies as defined by College policy.

To be considered for admission to the Ph.D. program, students must meet the following minimum requirements:

- A BSN or master's degree in nursing from a CCNE/NLN AC accredited program.
- A master's program GPA of 3.5 on a 4.0 scale and a score of 500 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination (GRE) General Test. In the current version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section.

OR

- A master's program GPA of 3.2 on a 4.0 scale and a score of 600 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination General Test. In the current version of the GRE a score a minimum score of 160 in the verbal section and 148 in the quantitative section.

- Completion of the GRE analytical section

- Eligibility for licensure to practice as a registered nurse in the state of Florida

A personal interview is preferred to establish a Graduate Faculty mentor who will work with the student to individualize the academic program and to structure the student's research or practice focus.

You may also call 352-273-6331 for more information.

Degrees

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

College of Nursing Courses

- NGR 5934: Cultural Influences on Health Care
- NGR 6002C: Advanced Health Assessment
- NGR 6006: Principles of Clinical Outcomes Management
- NGR 6054C: Advanced Neonatal Health Assessment and Diagnostic Reasoning
- NGR 6052C: Adult Nursing: Diagnostics and Procedures
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- NGR 6244: Adult Nursing: Chronic Health Problems
- NGR 6244L: Adult Nurse Practitioner: Chronic Health Problems Laboratory
- NGR 6247: Complex High Prevalence Illnesses Of Adults
- NGR 6247L: Complex High Prevalence Illnesses Of Adults
- NGR 6248: Adult Acute Care Nurse Practitioner 3
- NGR 6248L: Adult Acute Care Nurse Practitioner 3
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- NGR 6307L: Advanced Child Health Nursing III
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- NGR 6321C: Neonatal Care II
- NGR 6323C: Neonatal Care III
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- NGR 6350L: Family Nurse Practitioner: Women, Adolescents, And Children

- NGR 6360C: Nurse-Midwifery Care I
- NGR 6361C: Nurse-Midwifery Care II
- NGR 6364: Seminar: The Nurse Midwife
- NGR 6371: Pharmacotherapeutics for Advanced Neonatal Nursing
- NGR 6372C: Advanced Pediatric Procedures and Diagnostics
- NGR 6500C: Individual and Family Therapy for Psychiatric-Mental Health Nursing
- NGR 6501C: Group Therapy and Community Interventions for Psychiatric-Mental Health Nursing
- NGR 6538: Psychopharmacology for Psychiatric Nursing
- NGR 6612: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
- NGR 6612L: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
- NGR 6636: Wellness Promotion and Disease Prevention
- NGR 6726: Management of the Care Environment II
- NGR 6727: Management of the Care Environment I
- NGR 6740: Role Transition: Issues in Advanced Practice Nursing
- NGR 6770: Leadership/Role of Clinical Nurse Leader
- NGR 6771: Clinical Nurse Leader Role Seminar
- NGR 6773: Clinical Nurse Leader Residency/Internship
- NGR 6815: Foundations of Qualitative Research in Nursing
- NGR 6840: Applied Statistical Analysis I
- NGR 6845: Applied Statistical Analysis II
- NGR 6850: Research Methods and Utilization for Nursing
- NGR 6905: Individual Study
- NGR 6941: Practicum in Nursing
- NGR 6930: Special Topics in Nursing
- NGR 6944: Individual Clinical Practice
- NGR 6970: Research for Master's Project
- NGR 6971: Research for Master's Thesis
- NGR 7176: Advanced Topics in Pharmacotherapeutics in Nursing
- NGR 7816: Quantitative Research Design and Measurement in Nursing
- NGR 7003: Advanced Diagnostic Reasoning
- NGR 7115: Philosophy of Nursing Science
- NGR 7124: Theory Development in Nursing
- NGR 7700: Leadership and Role Development in Advanced Nursing Practice
- NGR 7709: Nurse Scientist and Scholar I
- NGR 7814: Field Methods for Health Related Research
- NGR 7827: Outcomes Research and Evaluation
- NGR 7831: Quality Indicators in Nursing Systems
- NGR 7835: Nurse Scientist and Scholar II
- NGR 7871: Nursing Informatics and Data
- NGR 7882: Ethical Theories and Rational Decision Making in Health
- NGR 7891: Health Policy and Finance in Advanced Nursing Practice
- NGR 7940L: Residency in Advanced Nursing Practice
- NGR 7970L: Advanced Nursing Project
- NGR 7979: Advanced Research
- NGR 7980: Research for Doctoral Dissertation

College of Pharmacy

Dean: J. Johnson

Complete faculty listings: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy and the Master of Science in Pharmacy degrees in the pharmaceutical sciences, with concentrations in medicinal chemistry, pharmacodynamics, pharmaceutical outcomes and policy, and pharmacy which includes pharmaceuticals. There are two additional concentrations in the Master of Science in Pharmacy program in pharmaceutical sciences: forensic drug chemistry, and forensic serology and DNA. Both offered in a distance-learning, nonthesis format. Complete descriptions of the minimum requirements for the M.S.P. and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

The Graduate Faculty and courses offered are listed under department headings in this catalog. The courses listed below consist of seminar, supervised teaching and research, and research for thesis or doctoral dissertation. These courses are offered in each of the departments.

Students who wish to pursue graduate studies in the College of Pharmacy must have an undergraduate degree in pharmacy, chemistry, biology, or related sciences.

Satisfactory completion of a thesis or dissertation based on research is a requirement for a graduate degree in the pharmaceutical sciences.

Inquiries regarding applications and general information about the graduate programs are processed through the

Office of Research and Graduate Studies,
College of Pharmacy,
P.O. Box 100484,
Health Science Center.

For more information, please see our website: <http://pharmacy.ufl.edu>.

[Departments and Programs within the College of Pharmacy](#)

[College of Pharmacy Courses](#)

Medicinal Chemistry Department

[College of Pharmacy](#)

Chair: M. O. James.

Graduate Coordinator: H. Luesch

Complete faculty listing by department: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy degree in pharmaceutical sciences with a concentration in medicinal chemistry. Medicinal chemistry is a unique blend of the physical and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active research include organic synthesis of medicinal agents, metal chelate design, prodrugs and topical drug delivery, drug metabolism, molecular toxicology, molecular biology, combinatorial chemistry, neurochemistry, analytical chemistry, molecular modeling, natural products, and drug discovery.

The applicant should have an undergraduate degree in pharmacy, chemistry, biology, or premedical sciences. A background in calculus and physical and organic chemistry is required. In addition to graduate medicinal chemistry courses in the College of Pharmacy, graduate courses in chemistry and biochemistry are required for the program.

The College also offers the Master of Science in Pharmacy degree in pharmaceutical sciences (nonthesis option) with concentrations in both forensic drug chemistry and forensic serology and DNA in a distance learning format. Minimum requirements for the M.S.P. and Ph.D. degrees are described in the *General Information* section of this catalog.

The Department participates in the interdisciplinary concentration in toxicology. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Other

Pharmaceutical Sciences (Medicinal Chemistry)

College

[College of Pharmacy](#)

Department/School

[Medicinal Chemistry Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Medicinal Chemistry

optional second concentration in Clinical and Translational Science

concentration in Toxicology

Master of Science in Pharmacy

concentration in Pharmaceutical Chemistry

concentration in Medicinal Chemistry

concentration in Forensic Serology and DNA

concentration in Forensic Science

concentration in Forensic Drug Chemistry

concentration in Clinical Toxicology

Medicinal Chemistry Courses

- PHA 5475: Synthesis of Prodrugs
- PHA 6115: Equilibria, Complexations, and Interactions of Drugs
- PHA 6354: Natural Medicinal Products
- PHA 6356: Structure Determination of Complex Natural Products
- PHA 6357: Herbal & Dietary Supplements
- PHA 6417: Pharmaceutical Analysis II
- PHA 6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA 6432: Fundamentals of Pharmaceutical Chemistry
- PHA 6444: Pharmaceutical Chemistry I
- PHA 6447: Drug Design
- PHA 6448: High Throughput Drug Discovery
- PHA 6471: Synthetic Medicinal Chemistry
- PHA 6534: Toxicology of Chemical Weapons
- PHA 6535: Principles of Nucleotide Activity
- PHA 6543: Pharmaceutical Chemistry II
- PHA 6556: Introduction to Clinical Toxicology
- PHA 6557: Clinical Toxicology 1
- PHA 6840: Medicinal Chemistry of Drugs of Abuse
- PHA 6850: Principles of Forensic Science
- PHA 6851: Forensic Analysis of DNA
- PHA 6853: Biological Evidence and Serology
- PHA 6854: Forensic Immunology
- PHA 6855: Forensic Genetics
- PHA 6856: Blood Spatter and Distribution
- PHA 6905C: Research Procedures in Medicinal Chemistry
- PHA 6934: Seminar in Medicinal Chemistry
- PHA 6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA 5270: Health Care and Patient Safety
- PHA 5271: Health Care Risk Management
- PHA 5272: Risk Management, Liability and Compliance
- PHA 6227: Institutional Pharmacy Leadership I
- PHA 6228: Institutional Pharmacy Leadership II
- PHA 6235: Advanced Pharmaceutical Law
- PHA 6236: Health Sciences Liability Law
- PHA 6250: Patient Responsibility in Health Care
- PHA 6264: Pharmacoeconomics and Health Technology Assessment
- PHA 6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA 6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA 6268: Pharmacoepidemiology and Patient Safety
- PHA 6269: Pharmaceutical Products and Public Policy
- PHA 6273: Structure, Process, and Outcomes of Regulation
- PHA 6274: Federal Regulations of Drugs and Pharmacy
- PHA 6275: Federal Regulations of Controlled Substances
- PHA 6276: Regulating Pharmaceutical Access and Costs
- PHA 6277: Ethics in Drug Development Production and Use
- PHA 6278: State Regulation of Drugs and Pharmacy
- PHA 6279: Pharmaceutical Outcomes and Policy Seminar
- PHA 6280: Medicare and Medicaid
- PHA 6281: Practices and Procedures of Administrative Agencies
- PHA 6286: Pharmaceutical Microeconomics
- PHA 6287: Pharmaceutical Health Economics

- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
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- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
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- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching

- PHA 6971: Research for Master's Thesis
- PHA 7979: Advanced Research
- PHA 7980: Research for Doctoral Dissertation

Pharmaceutics Department

Chair: H. C. Derendorf.

Graduate Coordinator: A. Palmieri III.

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmaceutics offers the Doctor of Philosophy in pharmaceutical sciences. Pharmaceutics is the scientific endeavor concerned with the design, formulation, evaluation, and use of drug delivery systems. A foundation in physical chemistry, chemistry, mathematics, and in the life sciences, is necessary. Its domain extends from studies of the physiochemical properties of drugs and related molecules to investigations of the mechanisms of physiological processes affecting drug delivery and therapeutic effectiveness. The Department's general focus involves studying the design and evaluation of traditional and novel dosage forms for delivering drug molecules and macromolecules. The design involves physical chemical studies and development of analytical techniques involving spectroscopy and chromatography. Evaluation includes development of sensitive analytical techniques for the drug in biological fluids and subsequent biopharmaceutical and clinical pharmacokinetic studies.

Other

Pharmaceutical Sciences (Pharmaceutics)

College

[College of Pharmacy](#)

Department/School

[Pharmaceutics Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Pharmacy

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

without a concentration

concentration in Pharmacy

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
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- PHA6449: Pharmacogenomics
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- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
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- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
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- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology 1
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- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I

- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
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- PHA6278: State Regulation of Drugs and Pharmacy
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- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
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- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
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- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmacodynamics Department

Chair: M. Keller-Wood.

Interim Graduate Coordinator: Joanna Peris

Complete faculty listing by department: [Follow this link.](#)

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the

interdisciplinary toxicology concentration (see *Interdisciplinary Graduate Studies* in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

Other

Pharmaceutical Sciences (Pharmacodynamics)

College

[College of Pharmacy](#)

Department/School

[Pharmacodynamics Department](#)

Pharmacodynamics Programs

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see *Interdisciplinary Graduate Studies* in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Pharmacodynamics

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

concentration in Pharmacodynamics

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
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- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology 1
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
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- PHA6717: Measurement in Pharmacy Administration Research
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- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process

- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
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- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmaceutical Outcomes and Policy Department

Chair: R. Segal

Graduate Coordinator: A. Winterstein

Complete faculty listing by department: [Follow this link.](#)

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree. Complete descriptions of the requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog.

Other

Pharmaceutical Sciences (Pharmaceutical Outcomes and Policy)

College

[College of Pharmacy](#)

Department/School

[Pharmaceutical Outcomes and Policy Department](#)

Pharmaceutical Outcomes and Policy Program Information

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree.

Research in the Department emphasizes the epidemiological, socio-behavioral, administrative, regulatory, and economic aspects of drug therapy and pharmaceutical services, including assessment of safety, effectiveness, efficiency and quality aspects of patient-oriented pharmaceutical services and medication use.

The department offers both a research-oriented residential M.S.P. and Ph.D. degree programs as well as an online M.S.P. program. For the research oriented degree programs, graduate studies include core curricula and four specializations in patient safety and program evaluation, pharmacoeconomics, pharmacoepidemiology and social-behavioral research in medication use. Electives and required courses draw from the resources of the entire University. Graduates are prepared for leadership positions in academia, public service, pharmaceutical industry, and health service industry with a focus on the evaluation of drugs and related services.

The online non-thesis M.S.P. program is designed for working professionals, and focuses on pharmaceutical regulation and outcomes. Prior pharmacy experience/knowledge is not required and the program is available to persons located in the United States only. Coursework is delivered in both asynchronous and live, synchronous sessions. Students may choose among six specialty tracks including Pharmacy Regulation & Policy, Applied Pharmacoeconomics, Drug Regulatory Affairs, Clinical Research Regulation in Pharmacy, Patient Safety & Medication Risk Management, and Institutional Pharmacy Leadership.

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Pharmaceutical Outcomes and Policy

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

concentration in Medication Therapy Management

concentration in Pharmaceutical Outcomes and Policy

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
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Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
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- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmacotherapy and Translational Research Department

For a full list of faculty, please [follow this link](#).

Description to be added

Other

Pharmaceutical Sciences (Pharmacotherapy and Translational Research)

Description to be added

College

[College of Pharmacy](#)

Department/School

[Pharmacotherapy and Translational Research Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Clinical Pharmaceutical Sciences

Master of Science in Pharmacy

concentration in Clinical Pharmacy

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I

- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
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- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
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- PHA6806: Pharmacoeconomic Modeling
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- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

College of Public Health and Health Professions

Dean: Michael G. Perri

Executive Associate Dean: Stephanie L. Hanson

Complete faculty listings: [Follow this link.](#)

The University of Florida College of Public Health and Health Professions has established a new educational model that focuses on the integration of public health problem-solving and individual patient care. The college's mission is to preserve, promote and improve the health and well-being of populations, communities and individuals. To fulfill this mission, we foster collaborations among public health and the health professions in education, research and service.

For more information, please see our website: <http://phhp.ufl.edu>

[Departments and Programs within the College of Public Health and Health Professions](#)

[College of Public Health and Health Professions Courses](#)

Other

Public Health (M.P.H.)

College

[College of Public Health and Health Professions](#)

Master of Public Health Program Information

Director and Graduate Coordinator: Sarah L. McKune

Complete faculty listing: [Follow this link.](#)

The College of Public Health and Health Professions offers the Master of Public Health degree program through five departments in the college: [Behavioral Science and Community Health](#), [Biostatistics](#), [Epidemiology](#), [Environmental and Global Health](#), and [Health Services Research, Management, and Policy Department](#). This non-thesis program is designed to prepare students to become effective public health practitioners, scientists, and educators.

Students select one of six concentration areas:

- Biostatistics
- Environmental health
- Epidemiology
- Public health management and policy
- Public health practice
- Social and behavioral sciences

Both a 48-credit program for students without terminal health science degrees and a 42-credit program for students with terminal degrees are offered. A combined bachelor's/master of public health program is available, as well as a 15-credit college certificate program. Students interested in collaborative programs may pursue joint M.P.H. and D.V.M., M.D., J.D., Pharm.D., D.P.T., or DMD degrees, or concurrent master's and Ph.D programs. The MPH degree program and the Public Health certificate are available on campus and online. For program descriptions and information on applying, visit the website: www.mph.ufl.edu.

48-credit Master of Public Health: Students who do not hold a terminal degree in a health science discipline are eligible to apply for the 48-credit program. The program provides comprehensive coverage of core public health content and allows selection of a concentration. Students must complete 16 credits of core public health course work, 15-21 credits of concentration core courses, up to 12 credits of elective courses, and 5-8 credits of internship. The course work representing these requirements is described below.

42-credit accelerated Master of Public Health: Students who hold a terminal degree (usually a doctoral degree) in a health science discipline may be eligible for the 42-credit accelerated program. This program requires completion of 16 credits of core public health course work, 21 credits of concentration and elective course work, and a 5-credit internship.

Combined degree program: The College offers a combined degree program to allow qualified undergraduates to earn both a bachelor's degree and the Master of Public Health degree efficiently. Seniors with any undergraduate major are eligible for the combined degree program as long as they have an undergraduate GPA of at least 3.2 and competitive scores on the verbal and quantitative portions of the GRE, and their career interests match the M.P.H. program. Students accepted into the combined degree program complete 15 credits of public health course

work while still undergraduates, leaving only 33 credits after admission to graduate school. Students must achieve a B or better in public health courses taken as an undergraduate and be accepted to graduate school to complete the program.

Core Courses: All M.P.H. students take five public health core courses. The core courses in environmental health, epidemiology, public health management and policy, and social and behavioral sciences are taken by all students. The core biostatistics course varies across concentration areas. Students in the biostatistics, environmental health, and epidemiology concentrations must take [PHC 6052: Introduction to Biostatistical Methods](#). All other M.P.H. students must take [PHC 6050: Statistical Methods for Health Sciences Research I](#). In addition, all students must take a 1-credit seminar in contemporary public health issues and 5 to 8 credits of [PHC 6946: Public Health Internship](#).

Internship, major paper, and oral presentation: Each student completes an internship, which provides an opportunity to apply knowledge acquired in the classroom to a real public health problem in a practice setting. The internship is usually completed in the student's final term in the program. Students may engage in many activities during an internship, but each student must have one special project which serves as the basis for a major paper and an oral presentation. The written and oral presentations represent the culmination of the academic experience in the M.P.H. program. Presentations, which are scheduled on Public Health Day near the end of each semester, provide each student with an opportunity to organize and present the details of the special project to faculty, students, and invited guests. Students are expected to display their understanding of their projects in the larger context of public health as a cross-disciplinary field, and in relation to the competencies expected of all M.P.H. graduates. Three faculty members, including the supervisory committee chair, attend each presentation and are responsible for assessing whether the student has successfully demonstrated a broad knowledge of the field of public health and depth in his or her concentration area.

Degrees Offered with a Major of Public Health

Master of Public Health

Master of Public Health - Biostatistics

Master of Public Health - Environmental Health

Master of Public Health - Epidemiology

Master of Public Health - Health Management and Policy

Master of Public Health - Public Health Practice

Master of Public Health - Social and Behavioral Sciences

Public Health Courses

- HMG 6747: Marketing in Hospitality/Tourism
- HSA6114: U.S. Health Care System
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6010: Data Management and Statistical Computing for Epidemiology
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6313: Environmental Health Concepts in Public Health

- PHC 6317: Risk Communication for Public Health Practice
- PHC 6370: Public Health Biology
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6716: Survey Research Methods
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 6905: Independent Study
- PHC 6913: Biostatistics Project
- PHC 6930: Integrated Public Health Seminar
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7980: Research for Doctoral Dissertation
- STA6177: Applied Survival Analysis
- STA6208: Basic Design and Analysis of Experiments

Statistics Courses

Master of Public Health with a Concentration in Biostatistics

The contribution of biostatisticians is far reaching and includes both core public health research and consultation with other health professionals. The biostatistics concentration is designed primarily for students with a previous graduate degree (particularly in the health sciences) who want to obtain a solid background in quantitative and analytical methods for public health research. The course work exposes students to methodology typically used to analyze different types of public health data and gives them opportunities to apply these methodologies themselves.

Graduates of the M.P.H. program with a concentration in biostatistics return to their careers with an improved understanding of quantitative methods for public health research. This increased knowledge will facilitate their own research programs and will enhance their ability to critically read the literature in their field. The biostatistics concentration requires completion of 6 concentration core courses: PHC 6053 Regression Methods for the Health and Life Sciences, PHC 6000 Epidemiology Research Methods I, PHC 6080 SAS for Public Health Data, PHC 6081 SAS for Public Health Analysis, and PHC 6055 Biostatistical Computing Using R. Remaining courses include the public health internship (PHC 6946) and electives in statistics and public health. Visit the biostatistics concentration website for the most up-to-date information about course options: <http://mph.ufl.edu/programs/master-of-public-health/biostatistics>.

See the department Biostatistics website for information about other programs offered by the department: <http://biostat.ufl.edu/>.

Master of Public Health with a Concentration in Environmental Health

Professionals trained in environmental health study the impact of our surroundings on our health. They understand how environmental risk factors can cause diseases like asthma, cancer, and food poisoning. Environmental health professionals make up approximately half of public health personnel and the field accounts for about half of public health expenditures. Students interested in environmental health typically have a background in biological or physical sciences, engineering, nursing, medicine, and veterinary medicine. Prior experience in chemistry, biology, statistics, and Microsoft Excel software is desirable. Please note the prerequisites for Environmental Health courses and speak with the instructor if you have not successfully completed the prerequisites. The following courses are required for all students pursuing the environmental health concentration: VME 6602, VME 6607, PHC 6702, and PHC 6316. Students may also choose from elective course work listed on the department website below. Environmental health students complete their programs with an internship (PHC 6946) and electives on a wide variety of environmental health and public health topics.

Visit the environmental health concentration website for the most up-to-date information about course options:

<http://mph.ufl.edu/programs/master-of-public-health/environmental-health>. And visit the Website of the Department of Environmental and Global Health for information about other academic programs and activities in the department: <http://egh.php.ufl.edu>.

Environmental Health Courses

- EES 5245: Water Quality Analysis
- ENV 5105: Foundations of Air Pollution
- FOS 5205: Current Issues in Food Safety and Sanitation
- PHC 6702: Exposure Measurement and Assessment
- SWS 5551: Soils, Water, and Public Health
- VME 6602: General Toxicology
- VME 6603: Advanced Toxicology
- VME 6605: Toxic Substances
- VME 6607: Human Health Risk Assessment

Master of Public Health with a Concentration in Epidemiology

Epidemiology focuses on the study of the distribution and determinants of health in populations and communities. It is the scientific foundation of public health research that seeks to reduce risk factors and improve health. The discipline also contributes to public health practice and policy, and research in other health-related fields such as medicine and pharmacy. This concentration area is designed to train professionals to apply the principles and methods of epidemiological investigation in a broad range of settings. The required concentration core courses in epidemiology are PHC 6000, PHC 6002, PHC 6003, PHC 6011, and PHC 6053. Epidemiology concentration students complete their programs with an internship (PHC 6946) and electives in epidemiology and public health.

Additional detail and options for epidemiology elective course work is at the website: <http://mph.ufl.edu/programs/master-of-public-health/epidemiology>. Please also visit the website of the Department of Epidemiology for up-to-date information about other epidemiology programs and activities: <http://epidemiology.php.ufl.edu>.

Epidemiology Courses

- PHC 6000: Epidemiology Methods I
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6011: Epidemiology Methods II
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6405: Theoretical Foundations of Public Health
- PHC 6912: Special Project: Independent Research
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 6946: Public Health Internship

Master of Public Health with a Concentration in Public Health Management and Policy (PHMP)

This concentration focuses on the structure and administration of health organizations and the policies that impact health programs and reimbursement of health services. The concentration encompasses two of the major roles of leaders in public health. Essential skills for managing a health agency or organization include accounting, financial management, human resource management, strategic and program planning, operations research, economics, and monitoring outcome measures. Development, analysis, interpretation, and evaluation of government policies require analytical skills and social skills, as well as a deep understanding of politics.

The PHMP concentration requires six core courses: HSA 5174, HSA 6115, HSA 6152, PHC 6104, PHC 6421, and PHC 6103. In addition, students take two elective courses in one of three areas of specialization:

- Public health management
- Public policy
- Pharmaceutical use and policy.

The PHMP students complete their programs with an internship (PHC 6946) and public health elective courses.

Visit the public health management and policy concentration website for the most up-to-date information about course options:

<http://mph.ufl.edu/programs/onecampusprograms/concentrations-2/managementpolicy>.

The website of Department of Health Services Research, Management, and Policy provides additional information about activities and other academic programs in the department:

<http://hsmp.php.ufl.edu>.

Public Health Management and Policy Courses

- HSA 5174: Fundamentals of Health Care Finance
- HSA 6115: Introduction to Management of Health Services Organizations
- HSA 6152: Overview of U.S. Health Policy
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6421: Public Health Law and Ethics

Master of Public Health with a Concentration in Public Health Practice

This concentration provides the opportunity to develop breadth in public health by taking coursework in two, three, or four of the core public health concentrations. Such breadth is often required of professionals who assume positions of leadership in public health. It is available to students in joint and concurrent degree programs, medical and other health scientists, and working professionals. Public Health Practice is the only M.P.H. concentration available online.

The campus curriculum for this concentration follows the same model as the other concentrations. Students pursuing public health practice begin their programs with the 5 core courses required of all MPH students. Instead of a specified set of concentration core courses, however, these students may choose 2 or more courses from advanced course options in two to four of the other concentrations. Students complete their degree with a 5 to 8 credit internship. All students in this concentration must hold a prior health professional degree or be enrolled in a joint or concurrent graduate program. To be eligible for the accelerated option, applicants must hold a terminal degree in a health or health-related field.

The online Public Health Practice curriculum begins with the 5 core courses and then offers two or more courses in epidemiology, environmental health, public health management and policy and social and behavioral sciences. Students complete their degree with a 5 to 8 credit internship. Online students are not available to pursue the MPH on campus in Gainesville, either due to employment or geographic distance.

Master of Public Health with a Concentration in Social and Behavioral Sciences

The social and behavioral sciences concentration is based on the assumption that health and health behavior are influenced by multiple psychological, behavioral, social, and cultural factors. Central to addressing health problems and eliminating health disparities and inequalities, these factors must be understood and addressed using a framework that explores multiple levels (individual, interpersonal, organizational, community, and population) and the interactions among them. Through classroom instruction, research, and field practice, MPH students who concentrate in social and behavioral sciences explore the unique issues faced by diverse groups and populations and acquire skills to achieve social and behavioral change. Students in the social and behavioral sciences concentration are required to take five courses: PHC 6251 (Assessment and Surveillance in Public Health), PHC 6146 (Public Health Program Planning and Evaluation),

PHC 6700 (Social and Behavioral Research Methods), PHC 6195 (Public Health Information for Diverse Populations), and PHC 6405 (Theoretical Foundations of Public Health). In addition, they may choose two courses from ten concentration electives (e.g., PHC 6762, PHC 6441). Social and behavioral science students complete their programs with an internship (PHC 6946) and elective courses in public health or related fields.

Visit the social and behavioral science concentration website for the most up-to-date information about course options: <http://mph.ufl.edu/programs/master-of-public-health/socialbehavioralsciences>.

The website of Department of Behavioral Science and Community Health provides additional information about activities and other academic programs in the department: <http://bsch.php.ufl.edu>.

Social and Behavioral Sciences Courses

- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6441: Health Disparities in the United States
- PHC 6700: Social and Behavioral Research Methods
- PHC 6762: International Public Health
- PHC 6937: Special Topics in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study

- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D.)

College

[College of Public Health and Health Professions](#)

Degrees Offered with a Major in Public Health

Doctor of Philosophy

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
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- PHC 6153: Public Policy and Aging
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- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
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- PHC 6317: Risk Communication for Public Health Practice
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- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
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- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
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- PHC 7752: Seminar in Instrument Development for Public Health
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- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
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- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom

- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Rehabilitation Science

College

[College of Public Health and Health Professions](#)

Rehabilitation Science Program Information

Director: David D. Fuller

Graduate Coordinator: Ellen Esparolini

Admissions Coordinator: Amy Ladendorf

Complete faculty listing by department: [Follow this link.](#)

The interdisciplinary Ph.D. program in rehabilitation science is offered through the College of Public Health and Health Professions. It is designed to prepare rehabilitation scholars. Students are given the opportunity to develop skills in teaching, research, service leadership, and interdisciplinary teamwork. Students work closely with their faculty mentor within the broad categories of Movement Science, Disability Science, and Communication and Swallowing Science. On successful completion of the program, graduates typically take positions in research universities and research centers. Requirements for the Ph.D. degree are provided elsewhere in this catalog.

Admissions decisions are determined by an interdisciplinary admissions committee. The program is a minimum of 90 credit hours of study beyond the Bachelor's degree. The curriculum includes 25 graduate credits in core rehabilitation courses (rehabilitation science theory, research, and teaching) required of all students; 50 credits in specialty areas; and 15 credits of dissertation research. The 50 credits of specialty courses includes 18 credits from one (or a combination) of the three major emphases in rehabilitation mentioned above. The remaining 32 credit hours may be electives, or 30 credits may be transferred in from a master's degree program (with the approval of the supervisory committee. Specialty course work must be chosen by the student with supervisory committee input and approval.

For more information, please see our website: <http://rehabsci.php.ufl.edu>.

Degrees Offered with a Major in Rehabilitation Science

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Rehabilitation Sciences Courses

- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- SPA 5401: Speech Pathology Language Disorder
- SPA 6008: Medical Aspects of Speech-Language Pathology
- SPA 6117: Science of Singing
- SPA 6217: Vocal Health and Habilitation
- SPA 6311: Medical Audiology
- SPA 6312: Advanced Audiology and Neuro-Otology
- SPA 6340: Amplification I
- SPA 6341: Amplification II
- SPA 6342: Amplification III
- SPA 6436: Issues in Autism Spectrum Disorders
- SPA 6568: Clinical Evaluation in Medical Speech-Language Pathology
- SPA 6581: Special Clinical
- SPA 6830: Communication Disorders in Medically Complex Pediatric Populations
- SPA 7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions
- SPA 7306: Audiologic Assessment in a Medical Setting
- SPA 7391: Business and Professional Issues in Audiology
- SPA 7415: Neurolinguistics of Adult Language Disorders
- SPA 7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders
- SPA 7833: Audiology Research Project
- SPA 7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities
- SPA 7945: Graduate Practicum in Audiology
- SPA 7946: Clinical I: Practicum in Medical Speech and Language Pathology
- SPA 7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology
- SPA 7958: Clinical Externship

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
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- PHC 6153: Public Policy and Aging
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- RSD 6110: Rehabilitation Science Theory and Application I
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- RSD 6114: Rehabilitation in the United Kingdom
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- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research

- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Behavioral Science and Community Health Department

Chair: B. Curbow

Complete faculty listing by department: [Follow this link.](#)

The Department of Behavioral Science & Community Health (BSCH) is one of nine academic departments housed in the School of Public Health and Health Professions at the University of Florida. This department offers a Doctor of Philosophy (PhD) degree (SBS track). For more information about the program, please visit the link below.

Other

Public Health (Ph.D. - Social and Behavioral Sciences)

College

[College of Public Health and Health Professions](#)

Department/School

[Behavioral Science and Community Health Department](#)

Behavioral Science and Community Health Program Information

Social & Behavioral Sciences

The PhD in Public Health -Social and Behavioral Sciences (SBS) Track is targeted to individuals who wish to develop advanced knowledge and skills in the social and behavioral sciences theories and methods used in public health. Training is designed for those who desire public health careers in research, academics, government, or related health organizations. A prior graduate degree in public health or a related field is strongly preferred.

The program is focused upon the assumption that health and health behavior are impacted by multiple psychological, behavioral, social, and cultural factors. Central to addressing health problems and eliminating health disparities and inequalities, these factors must be understood and addressed at multiple social-ecological levels (individual, interpersonal, organizational, community, and population).

PhD students who concentrate in social and behavioral sciences explore the unique issues faced by diverse groups and populations and acquire skills to achieve social and behavioral change.

Contact

Dr. Giselle Carnaby (nee Mann), Program Director

gmamm@phhp.ufl.edu

Phone: 352-273-6745 ext. 36497; ext. 36164 (lab)

Office: HPNP 4172; DG-140 (lab)

For more information, please visit <http://sbs.phhp.ufl.edu/>

Degrees Offered with a Major in Public Health

Doctor of Philosophy

concentration in Social and Behavioral Sciences

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
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- PHC 6011: Epidemiology Methods II
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- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
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- PHC 7980: Research for Doctoral Dissertation
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- PHT 6127C: Control of Gait and Posture
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- PHT 6615L: Research Instrumentation in Physical Therapy
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- RCS 6825: Internship in Rehabilitation Counseling
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- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Biostatistics Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Interim Chair: Samuel Wu

Graduate Coordinator: Babette Brumback

Complete faculty listing by department: [Follow this link.](#)

The Department of Biostatistics offers [the Doctor of Philosophy degree in biostatistics](#), [the Master of Science degree in biostatistics](#), and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

Other

Biostatistics (PHHP)

College

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Department

[Biostatistics Department](#)

Biostatistics Program

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

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- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

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Master of Science

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Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

Degrees

Doctor of Philosophy

Master of Science

Biostatistics Departmental Courses

- GMS 6818: Design and Conduct Clinical Trials I
- GMS 6819: Design and Conduct Clinical Trials II
- GMS 6827: Advanced Clinical Trial Methods
- GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6020: Clinical Trial Methods
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6050C: Biostatistical Methods I
- PHC 6051: Biostatistical Methods II
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences

- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
- PHC 6080: SAS for Public Health - Data
- PHC 6081: SAS for Public Health - Analysis
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6937: Special Topics in Public Health
- PHC 6946: Public Health Internship
- PHC 7013: Bias in Observational Research
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7925: Biostatistics Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- STA5223: Applied Sample Survey Methods
- STA5325: Fundamentals of Probability
- STA5328: Fundamentals of Statistical Theory
- STA5503: Categorical Data Methods
- STA5701: Applied Multivariate Methods
- STA5715: Applied Survival Analysis
- STA6092: Applied Statistical Practice
- STA6166: Statistical Methods in Research I
- STA7249: Generalized Linear Models
- STA7346: Statistical Inference

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health

- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Clinical and Health Psychology Department

[College of Public Health and Health Professions](#)

Department Chair: William W. Latimer.

Graduate Coordinator: S.R. Boggs.

Complete faculty listing: [Follow this link.](#)

The Department of Clinical and Health Psychology is a unit of the College of Public Health and Health Professions. The department's programs are its doctoral clinical psychology studies leading to the Ph.D. degree in psychology; an American Psychological Association accredited doctoral internship program; and postdoctoral studies and research. Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

The clinical psychology doctoral curriculum adheres to the scientist-practitioner model of education and training. Program strengths include research, education, and professional training in health care psychology, with organized areas of concentration in clinical health psychology, clinical child/pediatric psychology, neuropsychology, neurorehabilitation and clinical neuroscience, and emotion neuroscience/psychopathology. Education and training experiences are also available in rural psychology. Interested students can apply for acceptance into the Public Health Program and obtain dual M.P.H./Ph.D. degrees.

Progress in the program is determined by departmental policies which are consistent with American Psychological Association accreditation standards. The curriculum has been continuously accredited by the American Psychological Association since 1953.

Admission to the Department is through appropriate application to the Department's admission committee. A bachelor's degree is generally adequate preparation for graduate admission. It should include undergraduate courses in both experimental psychology and statistics, along with at least three courses from the following psychology areas: developmental, learning, perception, personality, physiological, and social.

For more information, please see the program page below and our website: <http://chp.phhp.ufl.edu>.

Other

Psychology (Clinical and Health Psychology - PHHP)

College

[College of Public Health and Health Professions](#)

Department/School

[Clinical and Health Psychology Department](#)

Psychology (Clinical and Health Psychology) Program Information

The department of Clinical and Health Psychology is an academic and professional unit in the College of Public Health and Health Professions at the Health Science Center on the University of Florida campus in Gainesville. The doctoral program in clinical psychology has been accredited by the American Psychological Association since 1953 and adheres to the Scientist-Practitioner Model of education and training. The Clinical Psychology Doctoral program is unique in the country in that it is housed in an independent department of Clinical and Health Psychology in a major academic health science setting along with an APA accredited internship. These features foster program strengths in research, teaching and professional training in health care psychology.

To accommodate the broad range of career trajectories possible within Scientist-Practitioner education and training, the program offers a Scientist-Practitioner Emphasis and a Clinical Researcher Emphasis.

The **Scientist-Practitioner Emphasis** allows the student to obtain broad clinical, academic, and research training that readies them for careers anywhere along the science-practice continuum. The student obtains focused research mentorship in a faculty member's laboratory and obtains broad training in clinical assessment and intervention both in and outside of their designated area of concentration.

The **Clinical Researcher Emphasis** is designed to provide the interested student with more intensive mentor-based training for purposes of preparing for a research career. The Clinical Researcher Emphasis is designed for students who are clearly focused on a research career and therefore want an increased opportunity to perform mentored empirical work. This emphasis focuses on the acquisition of research skills, training in scientific methods and technologies to better understand behavior problems, psychopathology and psychological adjustment to illness and wellness, and to develop empirically validated assessment and treatment procedures. The primary goal of the Clinical Researcher emphasis is to train psychologists for academic settings and other employment venues in which research productivity and innovation is a major job expectancy. In comparison to the scientist-practitioner emphasis, more time is dedicated to research (less time is spent in supervised practicum with the general faculty), and advanced clinical training is focused on patient populations and methods in the student's area of research interest. The Clinical Researcher emphasis follows a "mentorship" model in which the faculty mentor is the student's overall guide and supervisor, and the student's primary research training is accomplished in his/her laboratory.

Students can elect the Clinical Researcher emphasis in the first or second year of study, based on their commitment to a clinical research career and the agreement of a faculty mentor. Students can apply for admission consideration to the Scientist-Practitioner emphasis, the Clinical Researcher emphasis, or both (see Application Procedures).

The Doctoral Program provides the student with training in the concepts, tools, roles, and functions of the clinical psychologist. The overall goals of the graduate program are to prepare the student to:

1. investigate meaningful, empirically testable questions in the quest for understanding a behavioral process, a patient's problem, or a professional issue;
2. function as a professional psychologist;
3. practice competently in the applied areas of psychological assessment/diagnosis, intervention/therapy, and consultation; and
4. contribute to the advancement of psychological knowledge through research or other creative scholarly activity.

Through a combination of general and specialized experiences in the classroom, laboratory, and clinic students develop knowledge and skills as scientist-practitioners. Attitudes are developed toward the practice of psychology and toward related professions which enable effective personal interaction and participation in the interdisciplinary approach to problems of research and practice. As students progress in the program, they develop professional identity through acceptance of increased responsibility for professional decisions, through the execution of significant research projects, and through their contributions to the understanding of psychological problems and processes.

For more information please see our website: <http://chp.phhp.ufl.edu>

Degrees

Doctor of Philosophy

concentration in Clinical and Health Psychology

optional second concentration in Clinical and Translational Science

concentration in Clinical and Translational Science

Master of Arts

Master of Science

Clinical and Health Psychology Departmental Courses

- CLP 5316: Health Psychology
- CLP 5426: Introduction to Neuropsychology
- CLP 6304: Psychological Foundations of Clinical Psychology I
- CLP 6307: Human Higher Cortical Functioning
- CLP 6308: Psychological Foundations of Clinical Psychology II
- CLP 6309: Psychological Foundations of Clinical Psychology III
- CLP 6344C: Lifespan Foundations of Behavioral Health and Illness I
- CLP 6345: Lifespan Foundations of Behavioral Health and Illness II
- CLP 6375: Introduction to Clinical Psychology
- CLP 6407: Psychological Treatment I
- CLP 6417: Psychological Treatment II
- CLP 6425: Seminar in Clinical Neuropsychology
- CLP 6430: Clinical Psychological Assessment
- CLP 6434C: Clinical Psychology Assessment I
- CLP 6435C: Clinical Psychology Assessment II
- CLP 6446C: Psychological Assessment of Children
- CLP 6447C: Psychological Assessment of Adults
- CLP 6476: Lifespan Psychopathology
- CLP 6497: Psychopathological Disturbances
- CLP 6527C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology I
- CLP 6528C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology II
- CLP 6529: Applied Multivariate Methods in Psychology
- CLP 6905: Individual Work
- CLP 6910: Supervised Research
- CLP 6940: Supervised Teaching
- CLP 6943: Core Practicum in Clinical Psychology
- CLP 6945: Advanced Practicum in Neuropsychology
- CLP 6946: Advanced Practicum in Applied Medical Psychology
- CLP 6947: Practicum in Intervention
- CLP 6948: Advanced Practicum in Clinical Child Psychology
- CLP 6971: Research for Master's Thesis
- CLP 7317: Advanced Health Psychology and Behavior Medicine
- CLP 7404C: Special Issues, Methods, and Techniques in Psychological Treatment
- CLP 7427C: Neuropsychological Assessment of Children
- CLP 7428C: Neuropsychological Assessment of Adults
- CLP 7934: Special Topics In Clinical Psychology
- CLP 7949: Internship
- CLP 7979: Advanced Research
- CLP 7980: Research for Doctoral Dissertation
- DEP 6216: Psychological Disturbances of Children
- GEY 6306: Interpersonal Communication Within the Aging Network
- GEY 7408: Psychotherapy with Older Adults

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health

- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice

- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Environmental and Global Health Department

Chair: G. C. Gray

Graduate Studies Program Assistant: N. Burke

Faculty listing: [Follow this link](#)

The Department of Environmental and Global Health focuses upon environmental factors that impact human health. Department faculty, scientists, and students employ numerous disciplines in studying these environmental factors: virology, bacteriology, parasitology, entomology, toxicology, epidemiology, water sciences, veterinary health, environmental engineering, aerosol biology, wildlife health, etc. Research work often involves international travel and collaboration. A central theme for the department is the interdisciplinary thinking called [One Health](#) which reflects the collaborations necessary to tackle public health's most difficult problems. Faculty, students and staff often perform research in the laboratories in the [Emerging Pathogens Institute](#), the [Center for Environmental and Human Toxicology](#), or the [Aquatic Pathobiology Laboratory](#).

The Department of Environmental and Global Health offers graduate work leading to the degrees of Doctor of Philosophy, Master of Health Science, and Master of Public Health.

Other

Environmental and Global Health (M.H.S. - One Health)

College

[College of Public Health and Health Professions](#)

Department

[Environmental and Global Health Department](#)

Degrees Offered With a Major in Environmental and Global Health

Master of Health Science

concentration in One Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics

- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
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- PHC 6702: Exposure Measurement and Assessment
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- PHC 6762: International Public Health
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- PHC 6917: Supervised Research Project
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- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
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- PHT 6127C: Control of Gait and Posture
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- PHT 6615L: Research Instrumentation in Physical Therapy
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- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice

- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
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- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
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- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D. - Environmental and Global Health)

College

[College of Public Health and Health Professions](#)

Department/School

[Environmental and Global Health](#)

Degrees Offered With a Major in Public Health

Doctor of Philosophy

concentration in Environmental Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics

- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice

- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D. - One Health)

College

[College of Public Health and Health Professions](#)

Environmental and Global Health Department

[Environmental and Global Health Department](#)

Degrees Offered With a Major in Public Health

Doctor of Philosophy

concentration in One Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics

- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
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- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
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- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
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- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
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- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Epidemiology Department

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Chair: Linda Cottler

Ph.D. Program Director: Cindy Prins

M.S. Program Director: Catherine Woodstock Striley

Complete faculty listing by department: [Follow this link.](#)

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described [here](#)). Minimum requirements for these degrees are described in the [Graduate Degrees](#) section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: <http://epidemiology.phhp.ufl.edu>.

Other

Epidemiology (PHHP)

College

[College of Public Health and Health Professions](#)

Department

[Epidemiology Department](#)

Epidemiology Program Information

The **Ph.D. in Epidemiology program** is in the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The program requires a minimum of 90 semester credits beyond the bachelor's degree. All students must complete a minimum of 9 credits in Epidemiology foundation course work, at least 36 credits of epidemiology core courses, 6 credits of statistics electives, 18 credits of epidemiology electives, 15 credits of general electives, and 12 credits of dissertation research. Students must also complete at least two mentored teaching experiences. All entering students who do not hold MPH or equivalent degrees are also required by the College of Public Health and Health Professions to complete an Introduction to Public Health course.

Students in the Ph.D. program in Epidemiology are admitted to work with a research mentor on that mentor's project, and that research mentor funds the student. Other funding sources are available such as the Graduate School and the Department.

The core course work is designed to incorporate competencies recommended in the report of the 2002 workshop on doctoral education in epidemiology from the American College of Epidemiology and the Association of Schools and Programs of Public Health, and criteria for applied epidemiology competencies. The overall outcomes expected of all graduates are as follows:

1. Apply epidemiological methods to address critical and/or emerging public health issues through the use of:

- Appropriate epidemiological research designs
- Advanced statistical analysis methods for health studies
- Data structures and measurement methods for health research
- Biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being
- Depth of knowledge in an area of specialization

2. Assimilate the history, philosophy, and ethical principles of epidemiology into current research

3. Develop grant proposals and manage research projects

4. Write scientific papers for publication in peer-reviewed journals, and communicate research results to scientists, policy makers, and the public

5. Compete successfully for research and teaching positions in academic institutions, federal or state agencies, or private institutions.

Details of the Ph.D. in Epidemiology program and application information are available at our website: <http://epidemiology.phhp.ufl.edu/about/ph-d-in-epidemiology-2>.

The **Master of Science in Epidemiology** degree is offered by the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The 36 credit program prepares students for careers in the public health arena that are focused on the surveillance and prevention of illnesses among diverse populations around the world. Students are trained in the foundational aspects of epidemiology including person, place and time, risk and protective factors, and the social determinants of health. Areas of focus include: chronic disease, infectious disease, geriatric, environmental, psychiatric, social, cancer and maternal and child health epidemiology.

Graduates of the M.S. in Epidemiology program are trained to:

- Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to areas of interest,
- Choose appropriate measurement and analytic methods to study health and disease in a population,
- Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health.

The program consists of required coursework and the successful completion of a thesis. The thesis is required to demonstrate skill in independent inquiry and investigation, under the tutelage of a mentor. Students may complete the course in three semesters with 36 credits.

More program information, including specific course requirements and elective options, is described at the program website: <http://epidemiology.phhp.ufl.edu/about/masters-of-science-in-epidemiology/mse-curriculum-2>.

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Science

Epidemiology (PHHP/COM) Departmental Courses

- GMS 6820: Advanced Epidemiology Methods
- PHC 6008: Cardiovascular Epidemiology
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6034: Epidemic Investigation
- PHC 6070: Epidemiology of Aging
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7007: Cancer Epidemiology
- PHC 7038: Psychiatric Epidemiology
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7427: Ethics in Population Science
- PHC 7727: Grant Writing for Population Health Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7902: Epidemiology Supervised Research Writing Circle

- PHC 7910: International Field Epidemiology
- PHC 7916: National Field Epidemiology
- PHC 7934: Seminar I: Epidemiology Past, Present, and Future
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
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- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
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- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
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- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics

- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Health Services Research, Management, and Policy Department

Chair: Arch G. Mainous, III

Graduate Coordinator: Patricia Van Wert

Complete faculty listing: [Follow this link.](#)

The Department of Health Services Research, Management, and Policy offers degree programs at both the master's and doctoral level. The Master of Health Administration (M.H.A.) prepares individuals for management positions in the health care field. The Department also participates in the Master of Public Health (M.P.H.) degree by offering a concentration in Public Health Management and Policy (more information available [here](#)).

At the doctoral level, the Department offers the Ph.D. degree in Health Services Research. This full-time program prepares graduates to investigate and evaluate the complexities of health care systems in the U.S. and elsewhere. Health services research is a multidisciplinary field that examines the delivery, organization, financing, and outcomes of health care services.

Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

For more information, please see the program pages below and our website: <http://hsmp.phhp.ufl.edu>.

Other

Health Administration

College

[College of Public Health and Health Professions](#)

Department/School

[Health Services Research, Management, and Policy Department](#)

Health Administration Program Information

The Master of Health Administration (M.H.A.) is a two-year, lock-step program with a summer internship between the first and second years. Small class size permits individual attention and guidance from faculty members. The program prepares qualified individuals motivated by a social mission and responsibility to the community for various management positions in the health services industry. Organizations seek individuals who have the ability to solve business problems and build strategic relationships in a climate of continuous change.

The UF M.H.A. program develops engaged early health care careerists to use evidence-based strategies to improve healthcare quality, affordability, and access. We provide students with fundamental knowledge using a cohort model in a campus-based setting that emphasizes experiential learning and data-driven problem solving both in the classroom and in the practice environment. Students will develop proficiency to detect, analyze, manage and respond to critical administrative issues in both provider and non-provider healthcare organizations. Our program embraces ethical conduct and professionalism, diversity and inclusion, practitioner involvement and team-based learning. Faculty inform practice with research and service to the community.

Applicants from any undergraduate major are considered. For more information about our program and details about the MBA/MHA dual degree, please see our website: <http://hsmp.php.ufl.edu/academic-programs/master-of-health-administration>.

Degrees

Master of Health Administration

Health Administration Program Courses

- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6177: Advanced Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6905: Individual Study in Health Administration
- HSA6939: Capstone Seminar in Health Administration

Health Services Research, Management, and Policy Departmental Courses

- HSA5103: Introduction to the U.S. Health Care System
- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6175: Health Care Financial Management
- HSA6177: Advanced Health Care Finance
- HSA6179: Introduction to Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6197: Information Management in Health Administration
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6858: Internship in Health Services Research
- HSA6878: Externship in Legal Aspects of Health Services Administration
- HSA6905: Individual Study in Health Administration
- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6935: Seminar in Health Administration
- HSA6939: Capstone Seminar in Health Administration
- HSA6940: Supervised Teaching
- HSA6946: Internship in Public Health Management and Policy

- HSA 7106: Seminar in Health Care Access and Utilization
- HSA 7116: Health Services Organizational Research
- HSA 7157: Research Foundations of Health Policy
- HSA 7414: Society, Health, and Medical Care
- HSA 7437: Advanced Health Economics
- HSA 7707: Health Services Research Methods I
- HSA 7708: Health Services Research Methods II
- HSA 7759: Quality and Outcomes in Health Services Research
- HSA 7905: Advanced Individual Study in Health Services Research
- HSA 7936: Seminar in Health Care Costs and Financing
- HSA 7938: Advanced Seminar in Health Services Research
- HSA 7979: Advanced Research
- HSA 7980: Research for Doctoral Dissertation
- PHC 6313: Environmental Health Concepts in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
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- PHC 6016: Social Epidemiology in Public Health
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- PHC 6050: Statistical Methods for Health Sciences Research I
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- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/AIDS in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology

- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
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- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Health Services Research

College

[College of Public Health and Health Professions](#)

Department/School

[Health Services Research, Management, and Policy Department](#)

Health Services Research Program Information

The Department of Health Services Research, Management and Policy offers a doctoral degree in Health Services Research. Health services research is a multidisciplinary field of inquiry, both basic and applied, that examines the use, costs, quality, accessibility, delivery, organization, financing, and outcomes of healthcare services. The objective is to increase knowledge and understanding of the structure and processes of the healthcare system, and to assess subsequent effects on individuals and populations. Health services research draws on a variety of disciplines, and integrates their conceptual frameworks and methods to provide new ways of studying and understanding the health care system.

The Ph.D. Program in Health Services Research prepares individuals to conduct inquiry that will inform government officials, corporate leaders, clinicians, health plan managers, and others making decisions about complex health-related problems and issues. Students in the Ph.D. Program in Health Services Research learn to apply research methods and scientific knowledge to the study of health services organizations and systems.

Graduates of the Ph.D. Program in Health Services Research will find career opportunities in academic, private sector, and public service settings. For example, some graduates will combine research interests with a teaching career and accept academic appointments in a wide range of health-related departments in the nation's colleges and universities. Other graduates will pursue health services research in the context of healthcare delivery and choose employment opportunities with hospitals and health systems, managed care companies, the pharmaceutical industry and consulting firms. Finally, graduates may pursue careers in government or other public service entities (such as private foundations), whose programs are increasingly dependent upon the

findings and methodologies of health services research.

For more details about our program, please see our website: <http://hsmp.php.ufl.edu/academic-programs/ph-d-in-health-services-research>.

Degrees

Doctor of Philosophy

Health Services Research Program Courses

- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6940: Supervised Teaching
- HSA7106: Seminar in Health Care Access and Utilization
- HSA7116: Health Services Organizational Research
- HSA7157: Research Foundations of Health Policy
- HSA7414: Society, Health, and Medical Care
- HSA7437: Advanced Health Economics
- HSA7707: Health Services Research Methods I
- HSA7708: Health Services Research Methods II
- HSA7759: Quality and Outcomes in Health Services Research
- HSA7905: Advanced Individual Study in Health Services Research
- HSA7936: Seminar in Health Care Costs and Financing
- HSA7938: Advanced Seminar in Health Services Research
- HSA7979: Advanced Research
- HSA7980: Research for Doctoral Dissertation

Health Services Research, Management, and Policy Departmental Courses

- HSA5103: Introduction to the U.S. Health Care System
- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6175: Health Care Financial Management
- HSA6177: Advanced Health Care Finance
- HSA6179: Introduction to Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6197: Information Management in Health Administration
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6858: Internship in Health Services Research
- HSA6878: Externship in Legal Aspects of Health Services Administration
- HSA6905: Individual Study in Health Administration
- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6935: Seminar in Health Administration
- HSA6939: Capstone Seminar in Health Administration
- HSA6940: Supervised Teaching
- HSA6946: Internship in Public Health Management and Policy
- HSA7106: Seminar in Health Care Access and Utilization
- HSA7116: Health Services Organizational Research
- HSA7157: Research Foundations of Health Policy
- HSA7414: Society, Health, and Medical Care
- HSA7437: Advanced Health Economics
- HSA7707: Health Services Research Methods I
- HSA7708: Health Services Research Methods II
- HSA7759: Quality and Outcomes in Health Services Research
- HSA7905: Advanced Individual Study in Health Services Research

- HSA 7936: Seminar in Health Care Costs and Financing
- HSA 7938: Advanced Seminar in Health Services Research
- HSA 7979: Advanced Research
- HSA 7980: Research for Doctoral Dissertation
- PHC 6313: Environmental Health Concepts in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
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- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Occupational Therapy Department

Chair: W. C. Mann.

Graduate Coordinator: C. A. Vellozo, J.J. Foss.

Complete faculty listing by department: [Follow this link.](#)

The Department of Occupational Therapy offers graduate programs in occupational therapy leading to the Master of Health Science (M.H.S.) degree (on-campus nonthesis and thesis options and distance learning nonthesis option) and the entry-level Master of Occupational Therapy (M.O.T.) degree. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

Master of Health Science: This program is designed for students who have earned an undergraduate degree in Occupational therapy. The thesis option requires four semesters of course work and a formal research thesis, while the nonthesis option requires three semesters of course work and a research project. The program emphasizes research and advanced theories related to occupational therapy practice. Preparation for teaching, administrative, and other occupational therapy roles is supplemented through elective courses. A coherent series of elective courses related to occupational therapy must be approved by the supervisory committee chairperson before the second semester of work.

In addition to the requirements of the Graduate School, admission requires the candidate to have completed a curriculum in occupational therapy accredited by the American Occupational Therapy Association or by the World Federation of Occupational Therapists.

The distance learning degree option for the Master of Health Science is specifically intended to meet the needs of the working professional. The nonthesis program is designed to improve the knowledge and skills of working occupational therapists for practice in a complex and challenging health care system. It provides preparation for new practice areas, leadership roles, and independent practice and is delivered through the Internet. In addition to the departmental requirements listed above, applicants to the distance learning program must have basic personal computer competency and access to a computer that meets minimal configuration requirements.

Additional information about the Master of Health Science is available at <http://www.hp.ufl.edu> or <http://gradschool.rgp.ufl.edu> or by telephone at (352)273-6817. For distance learning, see <http://otdlm.php.ufl.edu/> or call toll free (866)878-3297.

Master of Occupational Therapy: This entry-level degree program is designed for students who do not have an undergraduate degree in occupational therapy. The program provides students with a holistic perspective, including an understanding of the philosophical and theoretical bases for practice in the current health care environment. The M.O.T. program provides a strong background in theory, assessment, and therapeutic interventions. Before their professional preparation in the M.O.T. program, students receive a liberal education in their pre-professional baccalaureate studies, including several courses specifically focused for students planning to enter the M.O.T. program. Students may enroll in courses in the Bachelor of Health Science degree program at the bachelor's level, or they may complete these courses on a postbaccalaureate level before starting the M.O.T. program. Students are only admitted into the M.O.T. program in summer term and graduate at the end of the fall term after 1.33 years of full-time study (5 semesters) and 58 credits.

Admission requirements include completion of an undergraduate degree and the prerequisite course work. Three letters of reference and a letter of application are required by the Department. Additional information is available at <http://www.php.ufl.edu/ot/> and <http://gradschool.rgp.ufl.edu> or by telephone (352)273-6817.

This program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association. The address for ACOTE is 4720 Montgomery Lane, Box 31220, Bethesda, MD, 20814-1220. The phone number is (301) 652-2632. Graduates of the program are eligible to sit for the national certification exam administered by the National Board for Certification in Occupational Therapy (NBCOT). The website address of NBCOT is www.nbcot.org.

Other

Occupational Therapy

College

[College of Public Health and Health Professions](#)

Department/School

[Occupational Therapy Department](#)

Occupational Therapy Program Information

The UF Department of Occupational Therapy offers a Masters in Occupational Therapy (MOT). This program prepares students to meet the demands of a highly technological and fast paced American health care system.

The Masters in Occupational Therapy Degree Program is designed for students who do not have a entry-level professional level OT degree. To prepare to enter the Masters in Occupational Therapy program, undergraduate students may complete the University of Florida [Health Science \(BHS\)](#) degree program and the pre-OT track.

Applicants that have earned an undergraduate degree in a program other than UF's Health Science program can enter the MOT program through our [Conditional Graduate program](#).

By completing the Liberal Arts prerequisites for the program, students study the biological, psychological and social systems that impact on the performance of occupational roles. The MOT program provides a strong background in theory, assessment and therapeutic interventions and assists student to develop a strong professional identity.

Students selected from the Health Science/pre-OT track undergraduate program can apply the 6 pre-OT track course toward the MOT requirements for the MOT program. Students who have graduated from the other colleges or universities can be [admitted to the MOT program](#) and complete the 6 pre-OT track courses as part of their graduate program prior to initiating coursework in the Masters in Occupational Therapy Degree Program. The six Health Science [prerequisite courses](#) are offered the Fall and Spring semesters preceding the Summer start of the MOT coursework.

For more information, please see our website: <http://ot.phhp.ufl.edu/academics/mot/program-description>.

Degrees

Master of Health Science

Master of Occupational Therapy

Occupational Therapy Courses

- OTH 5002: Foundations of Occupational Therapy
- OTH 5115C: Therapeutic Skills II: Areas of Occupation
- OTH 5324: Psychosocial Intervention
- OTH 5435: Therapeutic Skills I
- OTH 5722: Professional Development in Occupational Therapy
- OTH 5726C: Service Delivery and OT Management
- OTH 5770C: Research for Occupational Therapy
- OTH 5812: Practicum I
- OTH 5816: Practicum II
- OTH 5848: Internship I
- OTH 5849: Internship II
- OTH 6008: Neuroscience of Human Occupation
- OTH 6106: Assistive Technology and Occupational Performance
- OTH 6539: Occupational Therapy Theory
- OTH 6635: Principles of Occupational Therapy Screening and Evaluation I
- OTH 6636: Principles of Occupational Therapy Screening and Evaluation II
- OTH 6641: Occupational Therapy Interventions I
- OTH 6642: Occupational Therapy Interventions II
- OTH 6707: OT Manager
- OTH 6708: Issues in Occupational Therapy Practice I
- OTH 6709: Issues in Occupational Therapy Practice II

- OTH 6720: Trends and Issues in Health Care
- OTH 6763: Evidence Based Practice
- OTH 6861: Specialty Internship
- OTH 6905: Individual Work
- OTH 6907: Professional Development Project
- OTH 6933: Special Topics in Occupational Therapy
- OTH 6971: Research for Master's Thesis

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
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- PHC 6312: Water Quality and Human Health
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- PHC 6607: Critical Issues in Public Health
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- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation

- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Speech, Language and Hearing Sciences Department

Chair: Scott K. Griffiths

Graduate Coordinators: Kenneth J. Logan and Alice Holmes

Complete faculty listing by department: [Follow this link.](#)

Graduate programs in the Department lead to Master of Arts and Doctor of Philosophy degrees in Communication Sciences and Disorders and to the Doctor of Audiology degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate specializations and programs in speech-language pathology and audiology are accredited by the Council on Academic Accreditation/American Speech-Language-Hearing Association.

The **Doctor of Audiology (Au.D.) Program** in the Department of Speech, Language, and Hearing Sciences is a four-year graduate degree. Graduate students take course work in theoretical and applied audiologic sciences and research. There are no specific undergraduate courses required for admission to the Au.D. degree program, although applicants with a strong science background are encouraged to apply. Graduates of this program are eligible for the Certificate of Clinical Competence in Audiology (CCC-A) administered by the American Speech-Language-Hearing Association, Board Certification in Audiology administered by the American Academy of Audiology, and for state licensure in audiology. For more information, contact Alice Holmes, Ph.D. (aholmes@ufl.edu).

The **Ph.D. Program in Communication Sciences and Disorders** provides a state-of-the-art education in research practices in speech-language pathology and audiology with a strong interdisciplinary focus. Our goal is to prepare the next generation of researchers who are specialized in basic and/or applied science that relates to a range of speech, language, hearing, and swallowing functions. The program is designed to develop researchers who are skilled at independently designing and conducting original research that adds to the body of knowledge in the field. Students are individually mentored and pursue individually designed programs of study tailored to their interests and needs, which incorporate training in appropriate adjunct fields such as engineering, dentistry, gerontology, linguistics, psychology, medicine and special education. For more information, contact Lori Altmann, Ph.D. (altmann@ufl.edu).

The **Master of Arts (M.A.) Program** offers comprehensive academic training and clinical experience for students who are interested in a career in speech-language pathology. The five-semester program culminates in the completion of either a clinical externship or a Master's thesis, and it provides graduates with a solid foundation for obtaining employment in a variety of work settings. Students have the opportunity to complete clinical practica at sites within the University of Florida's Health Science Center and at other medical, rehabilitative, and educational facilities on or near the campus. These sites allow students to gain experience with providing clinical services to a range of patient populations.

Applicants to the Master's program must demonstrate successful completion of pre-requisite coursework in both normal bases of communication and introductory concepts in communication disorders. Additional information about these pre-requisites is available on the Department website. Graduates of the program are eligible for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association as well as state licensure in speech-language pathology. For more information, contact Kenneth J. Logan, Ph.D. (klogan@ufl.edu).

The Department of Speech, Language, and Hearing Sciences is committed to providing its students with a high-quality educational experience that will prepare them for rewarding employment in the areas of speech-language pathology and audiology, as well as an eagerness for life-long learning and professional development. The department strives to enroll a diverse group of students who possess both high ethical standards and strong academic skills. The application deadlines are January 15 for fall admission to the Ph.D. program, and February 1 for fall admission to the Master's and Au.D. programs.

For more information, please see the program pages below and our website: <http://slhs.php.ufl.edu>.

Other

Audiology

College

[College of Public Health and Health Professions](#)

Department/School

[Speech, Language and Hearing Sciences Department](#)

Degrees Offered with a Major in Audiology

Doctor of Audiology

Speech, Language and Hearing Sciences Departmental Courses

- ASL 5406: Manual Communication with the Hearing Impaired
- LAE 6505: Applied Preschool Language Disorders: Diagnosis and Treatment
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- SPA 5102: Auditory Anatomy and Physiology
- SPA 5128: Speech Perception
- SPA 5204: Phonological Disorders
- SPA 5211: Voice Disorders
- SPA 5225: Principles of Speech Pathology: Stuttering
- SPA 5245: Communicative Disorders Related to Cleft Palate
- SPA 5254: Neurocognitive Language Disorders
- SPA 5304: Principles of Audiological Evaluation
- SPA 5315: Peripheral and Central Auditory Disorders
- SPA 5401: Speech Pathology Language Disorder
- SPA 5405: Language Disorders II
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- SPA 5646: Speech and Language of the Deaf and Hard of Hearing
- SPA 6008: Medical Aspects of Speech-Language Pathology
- SPA 6010: Basic Auditory Sciences
- SPA 6117: Science of Singing
- SPA 6133L: Hearing Aid Analysis Laboratory
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- SPA 6233: Speech Motor Control Disorders
- SPA 6270: Auditory Processing Disorders
- SPA 6805: Introduction to Graduate Research
- SPA 6305: Pediatric Audiology
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- SPA 6312: Advanced Audiology and Neuro-Otology
- SPA 6317: Vestibular Disorders
- SPA 6323: Audiologic Rehabilitation for Adults
- SPA 6324: Audiologic Rehabilitation for Children
- SPA 6340: Amplification I
- SPA 6341: Amplification II
- SPA 6342: Amplification III
- SPA 6390: Proseminar: Speech-Language Pathology and Audiology
- SPA 6410: Adult Language Disorders
- SPA 6416: Applied Neurogenic Disorders: Diagnosis and Treatment
- SPA 6430: Applied Developmental Disorders: Diagnosis and Treatment in Speech and Language
- SPA 6436: Issues in Autism Spectrum Disorders
- SPA 6506: Clinical Clerkship in Audiology
- SPA 6507: Applied Augmentative and Alternative Communication
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- SPA 6524: Practicum in Speech-Language Therapy: UFSHC
- SPA 6531: Clinical Practice in Hearing Assessment
- SPA 6533: Clinical Practice in Aural Rehabilitation
- SPA 6559: Alternative and Augmentative Communication

- SPA 6564: Communication and Aging
- SPA 6565: Seminar in Dysphagia
- SPA 6568: Clinical Evaluation in Medical Speech-Language Pathology
- SPA 6570: Seminar: Professional Aspects of Speech-Language Pathology
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- SPA 6910: Supervised Research
- SPA 6930: Proseminar in Speech-Language Pathology and Audiology
- SPA 6935: Applied Reading Disabilities: Diagnosis and Treatment
- SPA 6936: Special Topics
- SPA 6940: Supervised Teaching
- SPA 6942: Externship in Speech-Language Pathology
- SPA 6971: Research for Master's Thesis
- SPA 7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions
- SPA 7306: Audiologic Assessment in a Medical Setting
- SPA 7318: Clinical Auditory Electrophysiology
- SPA 7319: Balance Disorders: Evaluation and Treatment
- SPA 7325: Audiologic Rehabilitation
- SPA 7343: Cochlear Implants and Assistive Devices
- SPA 7348: Principles of Amplification
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- SPA 7354: Seminar in Audiology: Hearing Conservation and Noise Control
- SPA 7391: Business and Professional Issues in Audiology
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- SPA 7946: Clinical I: Practicum in Medical Speech and Language Pathology
- SPA 7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology
- SPA 7958: Clinical Externship
- SPA 7979: Advanced Research
- SPA 7980: Research for Doctoral Dissertation

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
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- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
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- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
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- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
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- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Communication Sciences and Disorders

College

[College of Public Health and Health Professions](#)

Department/School

[Speech, Language and Hearing Sciences Department](#)

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Doctor of Philosophy

Master of Arts

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- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

College of Veterinary Medicine

Dean: G. F. Hoffsis

Complete faculty listings: [Follow this link.](#)

The UF College of Veterinary Medicine is the state's only veterinary college. UF's College of Veterinary Medicine offers comprehensive services to the public through teaching, research, extension and state-of-the-art patient care.

For more information, please see our website: <http://www.vetmed.ufl.edu>

[Departments and Programs within the College of Veterinary Medicine](#)

[College of Veterinary Medicine Courses](#)

Other

Veterinary Medical Sciences

College

[College of Veterinary Medicine](#)

Veterinary Medical Sciences Program

Chair: C. Risco

Graduate Coordinator (Large Animals): I. Larkin

Graduate Coordinator (Small Animals): D. Lewis

Complete faculty listing by department: [Follow this link.](#)

The College of Veterinary Medicine offers graduate study leading to the Master of Science and Doctor of Philosophy degrees in veterinary medical sciences. The College also offers certification and a nonthesis concentration in forensic toxicology via web-based distance education. Minimum requirements for the Master of Science and Doctor of Philosophy degrees are described in the *Graduate Degrees* section of this catalog.

The program provides extensive training in basic and applied research for qualified students with a baccalaureate degree or a D.V.M. or equivalent degree. Applicants are expected to have a background in the biological sciences, mathematics, chemistry, and physics. Particular attention is paid to the advanced education of veterinarians, those interested solely in research, and those interested in combining their graduate study with residency training in a clinical specialty. The College offers three areas of specialization within the veterinary medical sciences program:

Large and Small Animal Clinical Sciences: Physiology, endocrinology, aquatic animal health, fish diseases, gastroenterology, immunology, vision sciences, perinatology, reproductive biology, pharmacokinetics, veterinary sports medicine, and wildlife and zoological medicine (I. Larkin and D. Lewis Graduate Coordinators).

Physiological Sciences: Comparative anatomy, physiology, pharmacology, biochemistry, neurobiology, nutrition, reproductive biology, and toxicology (R. Johnson, Graduate Coordinator).

Infectious Diseases and Experimental Pathology: Bacteriology, parasitology, virology, immunopathology, molecular mechanisms of disease and host defense, epidemiology, and veterinary public health (M.T. Long, Graduate Coordinator).

The College participates in the interdisciplinary specialization in toxicology, in cooperation with other departments and colleges in both the Health Science Center and the Institute of Food and Agricultural Sciences and with the Center for Environmental and Human Toxicology (see the Toxicology description under *Interdisciplinary Graduate Studies*).

The following courses in related areas are acceptable for graduate major credit in veterinary medical sciences: **Physiological Sciences:** [ANS 6704](#), [ANS 6751](#), [BCH 5413](#), [BCH 6206](#), [BCH 6415](#), [BCH 6740](#), BMS 6510, [GMS 6400C](#), [GMS 6735](#), GMS 7706C, GMS 7743. **Infectious Diseases and Experimental Pathology:** [BCH 5413](#), [BCH 6415](#), BMS 603, GMS 5304C, [GMS 6140](#), GMS 6152, GMS 6330, GMS 6332, GMS 6333, [GMS 6381](#), [GMS 6382](#), [GMS 6421](#), [STA 6208](#), [STA 6166](#), STA 6176. **Large and Small Animal Clinical Sciences:** all of the above.

Degrees Offered with a Major in Veterinary Medical Sciences

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

concentration in Clinical and Translational Science

concentration in Toxicology

Master of Science

without a concentration

concentration in Forensic Toxicology

concentration in Shelter Medicine

concentration in Veterinary Forensic Sciences

Courses

- GMS 6070: Sensory and Motor Systems
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6393: Seminar in Clinical Chemistry
- PHA 5270: Health Care and Patient Safety
- PHA 5271: Health Care Risk Management
- PHA 5272: Risk Management, Liability and Compliance
- PHA 6115: Equilibria, Complexations, and Interactions of Drugs
- PHA 6116: In Vivo and In Vitro Stability of Drugs
- PHA 6118: Molecular Diversity
- PHA 6125: Pharmacokinetics and Biopharmaceutics
- PHA 6170C: Pharmaceutical Product Formulation
- PHA 6183: Pharmaceutical Gene Delivery
- PHA 6185: Pharmaceutical Drug Development
- PHA 6227: Institutional Pharmacy Leadership I
- PHA 6228: Institutional Pharmacy Leadership II
- PHA 6235: Advanced Pharmaceutical Law
- PHA 6236: Health Sciences Liability Law
- PHA 6250: Patient Responsibility in Health Care
- PHA 6264: Pharmacoeconomics and Health Technology Assessment
- PHA 6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA 6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA 6268: Pharmacoepidemiology and Patient Safety
- PHA 6269: Pharmaceutical Products and Public Policy
- PHA 6273: Structure, Process, and Outcomes of Regulation
- PHA 6274: Federal Regulations of Drugs and Pharmacy
- PHA 6275: Federal Regulations of Controlled Substances
- PHA 6276: Regulating Pharmaceutical Access and Costs
- PHA 6277: Ethics in Drug Development Production and Use
- PHA 6278: State Regulation of Drugs and Pharmacy
- PHA 6279: Pharmaceutical Outcomes and Policy Seminar
- PHA 6286: Pharmaceutical Microeconomics
- PHA 6287: Pharmaceutical Health Economics
- PHA 6288: Critical Review of Research Methods
- PHA 6289: Regulating Clinical Research
- PHA 6291: Pharmaceutical Health Care Systems
- PHA 6416: Pharmaceutical Analysis I
- PHA 6417: Pharmaceutical Analysis II
- PHA 6427: Pharmacogenetics of Drug Metabolism
- PHA 6440: Seminar in Drug Discovery
- PHA 6717: Measurement in Pharmacy Administration Research
- PHA 6793: Evidentiary Basis of Pharmaceutical Use
- PHA 6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA 6798: The Use and Abuse of Statistics in Drug Regulation
- PHA 6799: Patient Safety Program Evaluation
- PHA 6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA 6891: Introduction to Pharmacoepidemiology
- PHA 6892: Practices and Procedures of the IRB
- PHA 6893: Research Ethics
- PHA 6894: Introduction to Graduate Studies
- PHA 6896: Preclinical Drug Evaluation
- PHA 6937: Topics in Pharmaceutical Administration
- PHC 6107: Introduction to Veterinary Public Health
- VME 5162C: Avian Diseases
- VME 5244: Physiology: Organ Systems
- VME 6008: Care of Aquatic Megavertebrates
- VME 6010: Aquatic Animal Conservation Issues
- VME 6011: Introduction to Aquatic Wildlife Health Issues
- VME 6017: Manatee Health & Conservation

- VME 6051: Cruelty to Animals and Interpersonal Violence
- VME 6052: Animal Crime Scene Processing
- VME 6054: Scientific and Legal Principles of Forensic Evidence
- VME 6056: Animal Law
- VME 6076C: Andrology
- VME 6135: Diseases of Laboratory Animals I
- VME 6136: Diseases of Laboratory Animals II
- VME 6186: Advanced Topics in Disease Pathogenesis
- VME 6421: Biology and Molecular Biology of Avian Viruses
- VME 6430C: Contemporary Issues in Small Animal Surgery
- VME 6464: Molecular Pathogenesis
- VME 6505: Autoimmunity
- VME 6570: Wildlife Conservation and Forensic Science
- VME 6571: Forensic Applied Animal Behavior
- VME 6572: Forensic Aspects of Agricultural Animal Welfare
- VME 6573: Wildlife Forensic Genetics
- VME 6575: Veterinary Forensic Medicine
- VME 6576: Veterinary Forensic Pathology
- VME 6577: Veterinary Forensic Pathology in Practice
- VME 6578: Forensic Veterinary Osteology
- VME 6579: Veterinary Forensic Radiology and Imaging
- VME 6602: General Toxicology
- VME 6603: Advanced Toxicology
- VME 6604: Literature Survey in Toxicology
- VME 6605: Toxic Substances
- VME 6606: Ecological Risk Assessment
- VME 6607: Human Health Risk Assessment
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6615: Veterinary Forensic Toxicology
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control
- VME 6767: Issues in the Responsible Conduct of Research
- VME 6771: Veterinary Epidemiologic Research
- VME 6905: Problems in Veterinary Medical Sciences
- VME 6910: Supervised Research
- VME 6931: Seminar in Veterinary Medical Sciences
- VME 6932: Seminar in Physiological Sciences
- VME 6933: Seminar in Infectious Diseases and Experimental Pathology
- VME 6934: Topics in Veterinary Medical Sciences
- VME 6936: Seminar in Pathophysiology
- VME 6938: Topics in Aquatic Animal Health
- VME 6940: Supervised Teaching
- VME 6971: Research for Master's Thesis
- VME 7979: Advanced Research
- VME 7980: Research for Doctoral Dissertation
- WMS 5323C: Impact of Diseases on Wildlife Population

College of Pharmacy Courses

- PHA 5171: Pharmaceutical Biotechnology
- PHA 6521C: Research Techniques in Pharmacodynamics
- PHA 6806: Pharmacoeconomic Modeling
- PHA 6910: Supervised Research
- PHA 6935: Selected Topics in Pharmacy
- PHA 6936: Advanced Topics in Pharmaceutical Sciences
- PHA 6938: Research Seminar
- PHA 6940: Supervised Teaching
- PHA 6971: Research for Master's Thesis
- PHA 7979: Advanced Research
- PHA 7980: Research for Doctoral Dissertation

Pharmacodynamics Courses

- PHA 5531: Neurotoxicology
- PHA 6508: Systems Physiology and Pathophysiology I
- PHA 6509: Systems Physiology and Pathophysiology II
- PHA 6512L: Experiential Research Training in Pharmacodynamics
- PHA 6521C: Research Techniques in Pharmacodynamics
- PHA 6522L: ICBR Molecular Techniques Laboratory
- PHA 6540: Neurochemical Foundation of Pharmacodynamics
- PHA 7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology

- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

Complete faculty listing by department: [Follow this link.](#)

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology

- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

Programs within the College of Design, Construction, and Planning

College of Design, Construction, and Planning

Dean: C. Silver

Complete faculty listings: [Follow this link.](#)

DCP is home to five independent professional disciplines: architecture, construction management, interior design, landscape architecture and urban and regional planning. The college also is home to an interdisciplinary program in historic preservation, which allows graduate students to gain expertise in research and application of historic preservation in the United States and abroad.

Accreditation and Degrees

The academic programs in the college have an accreditation process from the professional organizations of each discipline.

- Architecture – National Architectural Accrediting Board

- Construction Management – American Council for Construction Education
- Interior Design – Foundation for Interior Design Education Research
- Landscape Architecture – American Society of Landscape Architects
- Urban and Regional Planning – Planning Accreditation Board

DCP offers both undergraduate and graduate degrees and programs. Through its academic units, the college offers doctoral, master's, and bachelor's degrees, as well as distance education programs, combined degrees, joint degrees, certificate programs, and academic minors.

College Institutes, Centers and Programs

Research and service projects conducted through the research centers and institutes often entail multidisciplinary, cross-campus student input and effort. Each division of the college is involved in on-going projects that advance both scholarly study and professional practice. The college contributes to community, state, regional and national efforts to conserve and improve the quality of the natural and built environments through its research centers. The college's teaching and research programs have national and international prominence.

For more information, please see our website: <http://www.dcp.ufl.edu>

[Departments and Programs within the College of Design, Construction, and Planning](#)

[College of Design, Construction, and Planning Courses](#)

Other

Design, Construction, and Planning (Ph.D.)

College

[College of Design, Construction, and Planning](#)

Degrees Offered with a Major in Design, Construction, and Planning

Doctor of Philosophy

without a concentration

concentration in Construction Management

optional second concentration in Geographic Information Systems

concentration in Geographic Information Systems

concentration in Historic Preservation

optional second concentration in Geographic Information Systems

concentration in Interior Design

optional second concentration in Geographic Information Systems

concentration in Landscape Architecture

optional second concentration in Geographic Information Systems

concentration in Urban and Regional Planning

optional second concentration in Geographic Information Systems

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction

- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM5905: Special Studies
- ICM6420: Commercial Management and Cost Control
- ICM6440: Construction Value Management
- ICM6680: Principles of International Sustainable Construction
- ICM6682: Construction Ecology and Metabolism
- ICM6684: High-Performance Green Building Delivery Systems
- ICM6710: Construction Human Resource Management
- ICM6750: Managing Construction Information Technology
- ICM6751: International Construction Management
- ICM6752: Construction Finance and Investment
- ICM6761: Advanced Planning, Scheduling, and Logistics
- ICM6762: Construction Risk Management
- ICM6770: Advanced Project Safety Management
- ICM6772: International Strategic Management
- ICM6905: Directed Independent Study in International Construction
- ICM6910: Supervised Research
- ICM6930: Construction Communication and Research
- ICM6934: International Construction Research

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study

- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I

- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Historic Preservation

College

[College of Design, Construction, and Planning](#)

Degrees Offered with a Major in Historic Preservation

Master of Historic Preservation

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design

- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar

- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

School of Architecture

Director: M. Gold.

Graduate Coordinator: N. M. Clark.

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization in this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, Box 115701.

Master of Architecture: The School of Architecture offers graduate work leading to the first professional degree, Master of Architecture. During graduate studies, each student has the opportunity to focus on one or more areas, including design, history and theory, urban design, preservation, structures, and technology. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design. The student's overall college experience, both undergraduate and graduate programs, is intended to be a complete unit of professional education leading to practice in architecture or related fields.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Florida School of Architecture offers the following NAAB-accredited degree programs:

Master of Architecture (pre-professional degree + 52 graduate credits) Master of Architecture (professional degree + 30 graduate credits) Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits)

Master of Architecture (pre-professional degree + 52 graduate credits): For those students who have a 4-year baccalaureate degree from an accredited architectural program, 2 years in residence (52 credits) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. Course sequences in history and theory, technology, structures, and practice must also be completed.

Master of Architecture (professional degree + 30 graduate credits): For students who have a baccalaureate degree with an architecture or related major (interior design, landscape architecture) and who have completed 4 or 6 architecture or design studies courses, three years of residence (83 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or master's project. (Undergraduate courses 3000 and 4000 level in the major do not count toward the minimum requirements for the graduate degree.) Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Master of Architecture (non-pre-professional degree + 54 undergraduate credits + 52 graduate credits): For students with a baccalaureate degree in a nonrelated academic area and have completed fewer than 4 design studies courses, 4 years of residence (112 credits, approximately) are normally required to complete the Master of Architecture degree; notification of program length is part of the letter of acceptance and is determined by portfolio and transcript review. [ARC 4071](#), [ARC 4072](#), [ARC 4073](#), [ARC 4074](#), [ARC 6241](#), [ARC 6355](#), and [ARC 6356](#) are required of all graduate students in this track and are prerequisites for the required thesis or project. Undergraduate courses 3000 and 4000 level in the major do not count toward the 52-hour minimum requirements for the graduate degree. Course sequences in history and theory, materials and methods, technology, structures, and practice must be completed.

Accredited 5-year professional base: For students with a baccalaureate degree in architecture from an accredited 5-year professional degree program, a 1-year degree program is available. In these cases, a specialized curriculum is developed that complements the needs of the applicant. Minimum registration is 30 credits; however, the minimum may increase if transcript reviews show that further course work is needed to meet registration and curriculum requirements. [ARC 6356](#) is a prerequisite for the thesis or master's project.

Most states require individuals intending to become architects to hold an accredited degree. The National Architectural Accrediting Board acknowledges two types of degrees: the Bachelor of Architecture (minimum 5 five years of study); and the Master of Architecture (minimum 3 years of study after an unrelated bachelor's degree, or 2 years after a related pre-professional bachelor's degree). These professional degrees educate those who aspire to registration and licensure to practice as architects.

Student work: The College may retain student work for the purpose of record, exhibition, or instruction.

Master of Science in Architectural Studies: The M.S.A.S. is a nonprofessional degree for advanced investigations in specialized areas of architectural history, architectural pedagogy, theory, technology, design, preservation, or practice. Students with a bachelor's degree in any discipline from an accredited university are eligible to apply to this program; the proposed area of focus should be precisely defined in the application. This is a 3- to 4-semester program (32 hours minimum) that includes a thesis. (No more than 6 hours of ARC 6971 may be counted in the minimum credit hours for the degree.) Interdisciplinary study is encouraged. Concentrations and certificates are available in historic preservation, sustainable architecture, and sustainable design.

The School sponsors special curricula in architecture to enhance the academic program. *Preservation Institute: Caribbean, Preservation Institute: Nantucket, and Viceria Institute of Architecture (Italy)* accepts students from the University of Florida, and also from academic circles throughout the United States and the world for year-round study. Any student in a graduate architecture program at the University of Florida may apply for one or more of these programs.

Requirements for the M.Arch., M.S.A.S., and Ph.D. degrees are described in the *General Information* section of this catalog.

The School also participates in a program granting an Interdisciplinary Concentration and Certificate in Sustainable Architecture. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

Applications: All applications for fall term graduate admission (including official transcripts, GRE scores, and TOEFL scores, if necessary) must be received by the Office of the Registrar by January 15. In addition to satisfying University requirements for admission, applicants are required to submit to the Graduate Program Assistant, School of Architecture, 231 ARCH, Box 115702, the following: a portfolio of their creative work; a scholarly statement of intent and objectives; and three letters of recommendation. This material must be received by January 15 to be considered for admission in the next fall term. Students may apply after the January 15 deadline but will only be considered if spaces become available. (Updates of portfolios are accepted after January 15; however, applications will not be considered until they are complete.)

The School reserves the right to retain student work for purposes of record, exhibition, or instruction. Field trips are required of all students; students should plan to have adequate funds available. It may be necessary to assess studio fees to defray costs of base maps and other generally used materials.

Other

Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[School of Architecture](#)

Degrees Offered with a Major in Architecture

Master of Science in Architectural Studies

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Master of Architecture

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Courses

- ARC 6512: Structural Modeling
- ARC 6116: Drawing toward Architecture
- ARC 6311C: Building Information Modeling
- ARC 6383: St. Augustine Interdisciplinary Design Studio
- DCP 6710: History and Theory of Historic Preservation
- DCP 6715: Preservation Building Technology
- DCP 6971: Research for Master's Thesis
- URP 6272: Advanced Planning Information Systems

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II

- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

M.E. Rinker, Sr., School of Construction Management

Director: Robert Ries

Director of Master's Programs: Robert E. Minchin

Complete faculty listing: [Follow this link.](#)

Doctor of Philosophy: The college offers an interdisciplinary doctoral program in design, construction, and planning. Areas of specialization in the program include architecture, construction management, interior design, landscape architecture, and urban and regional planning. Within the area of construction management, specialization options include sustainable construction, information systems, construction safety, affordable housing, productivity, and human resource management. These specializations prepare students to assume college-level faculty positions and industry research positions in construction management and the building sciences. For more information on the Ph.D. program, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701. For information on the specializations in the Rinker School of Construction Management, write to the Director of Graduate and Distance Education, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703.

The M.E. Rinker Sr. School offers courses leading to the degrees of Master of Science in Construction Management (thesis), Master of Construction Management (nonthesis), and Master of International Construction Management (nonthesis distance education program for experienced professionals). An individual plan of study is prepared for each student to insure that the student's goals are achieved within the broad policy guidelines of the Rinker School. Specialization may be in such areas as construction management, sustainable construction, information systems, construction safety, and construction law. Requirements for the M.B.C., M.S.B.C., M.I.C.M., and Ph.D. degrees are given in the General Information section of this catalog.

Master of Construction Management (M.C.M.) or Master of Science in Construction Management (M.S.C.M.): To be eligible for admission to the M.C.M. or M.S.C. programs, a student must hold a 4-year undergraduate degree in building construction or its equivalent in related fields. "Equivalent in related fields" should include studies in construction materials and methods, structures, and management. Students with deficiencies in these related fields may need longer residence for the master's degree, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement.

No more than 3 credits of [BCN 6971](#) may be used to satisfy the credit requirements for the M.S.C.M. degree without written permission of the Director of Master's Programs.

Master of International Construction Management (M.I.C.M.): This program prepares students to assume upper-level management responsibilities in a multinational company. To be eligible for admission to the M.I.C.M. program, a student must have

- A 4-year undergraduate degree
- At least 5 years of meaningful, supervisory-level construction management experience
- Acceptable GRE scores (verbal and quantitative)
- A grade point average of 3.0 on a 4.0 scale
- Employer sponsorship
- International students must submit an acceptable score on one of the following TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

No more than 3 credits of [ICM 6934](#) may be used to satisfy the credit requirements for the M.I.C.M. without written permission of the Director. All candidates are required to take ICM 6930. In addition to these 6 research-oriented graduate credit hours, the student selects one or two areas of emphasis and then takes the rest of the required 33 credit hours from the remaining courses and special electives. All candidates are required to pass a comprehensive oral and/or written examination at the completion of the course work and their master's research report/project.

The M.E. Rinker Sr. School reserves the right to retain student work for purposes of record, exhibition, or instruction.

Research facilities: The Shimberg Center for Housing Studies, operating within the School, researches the problems and possible solutions associated with developing and producing affordable housing. The Powell Center for Construction and the Environment conducts research on implementing sustainability in creating, operating, and constructing a built environment. The Fluor Program for Construction Safety researches and disseminates information on matters related to construction safety and health. The Center for Advanced Construction Information Modeling educates members of the AECO industry about new and emerging technologies in virtual design and construction.

Combined program: The School offers a combined bachelor's/master's degree program. Contact the Director of Master's Programs for information.

For more information, please see our website: <http://www.bcn.ufl.edu>.

Other

Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Construction Management

Master of Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Master of Science in Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction

- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Fire and Emergency Services

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Fire and Emergency Services Program Information

The Master of Fire and Emergency Services degree program focuses on Emergency Services/Disaster Management (ES/DM) and is designed for individuals who are seeking knowledge in emergency planning, hazard mitigation and preparedness, disaster response and recovery, and homeland security. The goal is to create broad experience that includes the many elements of current cases in ES/DM and emphasizes both the critical thinking and leadership skills necessary to advance in the field.

The M.F.E.S. degree provides post-professional advancement for the critical technical issues beyond the initial fire science practices and administrative studies. Major research topics include interdisciplinary studies in material sciences, suppression systems, advanced planning and geographic systems, pre- and post-disaster mitigation planning, computer applications, and technological innovations.

The M.F.E.S. is an online distance education program. All courses are conveniently delivered utilizing a web-based e-Learning system.

For more information, please see our website: <http://www.bcn.ufl.edu/academics/masters/msfesedm>.

Degrees Offered with a Major in Fire and Emergency Services

Master of Fire and Emergency Services

without a concentration

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES

- ICM5905: Special Studies
- ICM6420: Commercial Management and Cost Control
- ICM6440: Construction Value Management
- ICM6680: Principles of International Sustainable Construction
- ICM6682: Construction Ecology and Metabolism
- ICM6684: High-Performance Green Building Delivery Systems
- ICM6710: Construction Human Resource Management
- ICM6750: Managing Construction Information Technology
- ICM6751: International Construction Management
- ICM6752: Construction Finance and Investment
- ICM6761: Advanced Planning, Scheduling, and Logistics
- ICM6762: Construction Risk Management
- ICM6770: Advanced Project Safety Management
- ICM6772: International Strategic Management
- ICM6905: Directed Independent Study in International Construction
- ICM6910: Supervised Research
- ICM6930: Construction Communication and Research
- ICM6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

International Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in International Construction Management

Master of International Construction Management

without a concentration

concentration in Historic Preservation

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study

- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Sustainable Construction

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Sustainable Construction

Master of Science in Construction Management

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings

- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM5905: Special Studies
- ICM6420: Commercial Management and Cost Control
- ICM6440: Construction Value Management
- ICM6680: Principles of International Sustainable Construction
- ICM6682: Construction Ecology and Metabolism
- ICM6684: High-Performance Green Building Delivery Systems
- ICM6710: Construction Human Resource Management
- ICM6750: Managing Construction Information Technology
- ICM6751: International Construction Management
- ICM6752: Construction Finance and Investment
- ICM6761: Advanced Planning, Scheduling, and Logistics
- ICM6762: Construction Risk Management
- ICM6770: Advanced Project Safety Management
- ICM6772: International Strategic Management
- ICM6905: Directed Independent Study in International Construction
- ICM6910: Supervised Research
- ICM6930: Construction Communication and Research
- ICM6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Interior Design Department

Chair: M. Portillo.

Graduate Coordinator: N. Park

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy:

The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Interior Design:

The Master of Interior Design (M.I.D.) provides opportunities for students to direct their attention toward a variety of topics, including

- Design pedagogy and processes
- Sustainable, safe, and secure environments
- Creative performance and innovation
- Built heritage conservation.

Regardless of the study emphasis selected by the student, the M.I.D. program has a central focus with three categories of course work:

- Design studio
- Seminars in current interior design topics
- Theories and methods of research.

All M.I.D. students must complete an approved research topic with a written thesis. Requirements for the M.I.D. and Ph.D. degrees are given in the *General Information* section of this catalog.

Applications:

All applications must include acceptable GRE scores, transcripts for all previous academic work, and if the applicant's native language is not English, a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute. This information must be received in the Office of the Registrar by February 2. In addition to satisfying University requirements for admission, the applicants are required to submit to the Graduate Program Assistant, Department of Interior Design, 336 Architecture, P.O. Box 115705, University of Florida, Gainesville, FL 32611-5705, the following

- A portfolio of your design work (if applicable). The portfolio must be accompanied by a self-addressed, stamped envelope.
- A written essay on your goals and aspirations related to graduate studies
- Three letters of recommendation.
- A personal interview is not required, but many applicants choose to visit the campus and Department as a part of the application process.

Students enrolled in the Bachelor of Interior Design program at the University of Florida may apply to the M.I.D. program during their junior year (see below).

The Department reserves the right to retain student course work for the purposes of record, exhibition, or instruction. Field trips are required for all students; students should plan to have adequate funds available. Students are required to purchase a computer for course work. It may be necessary to assess studio fees to defray costs of base maps, plans, and other generally used materials.

Admission: Applications are processed through February 2 for fall term and all applicants are encouraged to apply as soon as possible. Admission decisions are made between February and the end of April. All new students begin their studies in the fall to coincide with curriculum sequencing

Graduate course requirements according to background: After assessment of previous design work, leveling courses may be required to prepare the student for the M.I.D. 36 hours of graduate course work. Therefore, each student entering the Master of Interior Design program works with the graduate coordinator to evaluate the student's unique background to determine the specific courses needed to facilitate interest and experience. Estimated credit hours and length of study time vary according to each student's individual baccalaureate degree and experience.

There are four options.

- For students enrolled in the Bachelor of Design program at the University of Florida, 12 hours of graduate-level course work in the senior year can be counted for both the undergraduate and the M.I.D. degrees. An additional 24 graduate credit hours are required. Expect at least 1 additional year to complete the M.I.D.
- For students who graduated from a Council of Interior Design Accreditation (CIDA) accredited first professional degree program within an architectural framework, the course of study is estimated to be 36 graduate credit hours. Expect 2 years to complete the M.I.D.
- For students who graduated from a design-related (architecture or interior design) baccalaureate degree program, the course of study is estimated to be a maximum of 59 graduate credit hours (includes the 36-hour M.I.D.). Expect 3 years to complete leveling courses and the master's degree.
- For students with a bachelor's degree in a field other than design, the course of study is estimated to be 86 undergraduate and graduate credit hours. Expect 3 to 4 years to complete leveling courses and the M.I.D.

Estimates of the number of credit hours and length of study time may be adjusted based on the individual student's previous preparation including experience as a practicing designer, architect, or other professional.

Program requirements: After leveling courses are completed and with approval by the graduate coordinator and supervisory committee chair, a student completes 24 hours of departmentally approved graduate work in the Department of Interior Design. In addition, with the graduate coordinator's approval, the student is required to take 3 hours of course work in graduate statistics and 9 hours of multidisciplinary graduate electives that reinforce and extend the research.

Courses from such academic units as Psychology, Anthropology, Sociology, Engineering, Education, and Business Administration provide possible electives. The College of Design, Construction and Planning offers the Certificate in Historic Preservation. If the focus of a student is the renovation and preservation of built environments, then historic preservation courses leading to a certificate would strengthen the research and design effort. Likewise, existing appropriate courses in Architecture, Landscape Architecture, Urban and Regional Planning, and Building Construction offer both collaborative study and research opportunities for M.I.D students.

Each student must select a two-member supervisory committee to guide course selection and to guide thesis selection, study, and production.

Other

Interior Design

College

[College of Design, Construction, and Planning](#)

Department/School

[Interior Design Department](#)

Degrees Offered with a Major in Interior Design

Master of Interior Design

without a concentration

concentration in Historic Preservation

concentration in Sustainable Design

Courses

- IND 5326: Color Theory Planning and Practice

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Landscape Architecture Department

[College of Design, Construction, and Planning](#)

Chair: Gina Gurucharri

Graduate Coordinator: Kevin Thompson

Complete faculty listing by department: [Follow this link](#)

The mission of the Department of Landscape Architecture is to advance the ethical, creative, and skillful application of the art and the science of planning and designing urban, rural and natural environments. The Master of Landscape Architecture seeks excellence through professional practice and service, and through research and scholarly pursuit.

Interstate field trips are required as a part of the normal program curriculum. Students should plan to have adequate funds for field trips and for studio materials. Students are also required to own a laptop computer meeting minimum department requirements. These specifications are available through the department of Landscape Architecture's website at URL: <http://www.dcp.ufl.edu/landscape>.

The Graduate program in Landscape Architecture offers flexibility in meeting the needs of applicants with varied backgrounds. Students entering the graduate program in landscape architecture follow one of the four following tracks:

Pre MLA Program

Graduate students who do not possess an LAAB accredited professional degree in landscape architecture are invited to enroll in the Pre MLA program.

The Pre MLA Program aids the development of basic analytical, design and graphic skills. Upon successful completion of the Pre MLA Summer term, students advance into a two-semester sequence of articulation courses that provide a foundation of applied landscape design and planning theory as well as competencies in landscape construction.

MLA Advanced Graduate Studies Program

Graduate students having completed the Pre MLA program or entering the MLA program with an LAAB accredited professional baccalaureate degree in Landscape Architecture commence a two year program of advanced graduate coursework towards the completion of the MLA degree.

MLA Program + Construction

Graduate students with a non-accredited or non-LAAB accredited degree in Landscape Architecture may apply directly to the MLA program but may be required to take additional coursework to develop core competencies required for advanced graduate study.

MLA Research Degree

Graduate students with an LAAB accredited professional degree in Landscape Architecture and a significant history of achievement in professional practice may tailor a program of advanced study to meet their specific needs. Proposals for the MLA Research Degree option are reviewed by the Graduate Coordinator and an approved course of study is determined through consultation with the Graduate Committee.

The normal tenure of advanced graduate study is five semesters which includes a summer semester internship. Students complete a minimum of 52 credit hours composed of lecture courses, seminars, design and construction studios, internship and individual study (special studies, supervised research and thesis or terminal project).

This time period would be extended should a student elect to expand the course work or seek a concurrent degree in a related field.

Design studios: Graduate design studios build on required lecture and seminar courses. A core of three advanced design studios are topically-oriented focusing on issues of human, ecological and regional concern. Each studio requires students to engage a method appropriate to the studio's selected projects, to analyze the findings generated by this research and to use the findings to build a rational argument that leads to a defensible design position. Interdisciplinary and multidisciplinary collaborations are encouraged on both a formal and an informal basis. Graduate studio projects also deal with current issues related to the mission of the Department with an additional focus on research and community service.

Thesis or terminal project: The Department recognizes that students have different professional goals and personal strengths and interests. A thesis is appropriate for students interested in further research or teaching, or in pursuing advanced degrees. A project (with a significant research component) is appropriate for students interested in design or project-oriented aspects of landscape architecture, or if their specific areas of interest suggest a nontraditional approach.

Programs, centers, and institutes: The College of Design, Construction, and Planning has several research centers and institutes. The course work and summer sessions afforded by these programs offer both required and elective course work for graduate students in landscape architecture:

The Center for Landscape Conservation Planning: The Center for Landscape Conservation Planning conducts applied research on the relationship between conservation and land use while providing learning opportunities for students.

The Center for International Design and Planning: The Center for International Design and Planning conducts interdisciplinary research with a focus on emerging design and planning trends in an era of globalization with a focus on resilient development systems and adaptive design and planning strategies.

The Preservation Institute: Nantucket gives students an opportunity to receive specialized educational experience in a broad range of preservation topics using Nantucket as a resource for case-study projects.

The Preservation Institute: Caribbean gives students an opportunity to conduct and apply research regarding the conservation of the rich cultural traditions of the Greater Caribbean basin.

The GEOPLAN Center is dedicated to the development of geographic and spatial information systems. Graduate students receive instruction in geographic information systems and are involved in a multidisciplinary studio that applies the tools and systems understanding afforded by GIS.

Graduate advisement: Students are initially advised by the Graduate Coordinator. He or she has guided the student's application through the acceptance process and is familiar with the student's background and needs. A plan of study is developed that includes required and optional courses. By the end of the second semester of study, each student is required to form a supervisory committee composed of two faculty members. The primary purpose of the graduate committee is to advise the student on educational objectives and the thesis or terminal project course work.

Application Procedure

Details of application procedure are found on the Department of Landscape Architecture's website. Applicants are encouraged to familiarize themselves with the details of the application procedures and the application requirements. Applications will ONLY be considered for the track for which they have been submitted. Make certain you are applying to the correct track based on your background and credentials and the criteria detailed above.

Application Dates

Applications are to be completed and submitted prior to the deadline noted on the Department's website. Unless otherwise noted, international applications must be received by November 1st. Applications from within the US are to be received no later than February 1st. Early applications are encouraged.

Application materials to be submitted online and/or to the Office of the Registrar

Application materials include the online application form accompanied by official transcripts, Letters of Recommendation, GRE scores, and TOEFL scores (applicants with English as a second language) to Office of the Registrar: Admissions Section, Criser Hall, University of Florida, Gainesville, Florida 32611.

Application Materials to be submitted directly to the Department

In addition to the materials submitted to the registrar's office, applicants must also submit a letter of intention to the Department of Landscape Architecture (Graduate Program Assistant).

Application Portfolio

All applicants are encouraged to submit a portfolio of creative works.

Post professional degree applicants applying for either the Pre MLA Fall Start or MLA Advanced Graduate Study program are required to submit a portfolio that both exhibits creative work experience and shows evidence of acquired technical proficiencies in the practice of landscape architecture.

All portfolio must be digital. PDF is preferred.

Application Status

Applications will be processed once all material has been received and must be complete prior to the application deadline. Applicants will be contacted by the Program Assistant if their application is incomplete. Please respond quickly if you have been contacted to increase the chances of your application being considered in the current review period. Only completed applications will be processed for review.

Once the application has been processed for review, applicants will receive written notification of their application status, generally sometime in the middle of March. Please do not contact the department with inquiries of your application status prior to the end of March.

Preparatory courses (see Undergraduate Catalog): LAA 2330, LAA 2350, LAA 2360, LAA 2370, LAA 3420, LAA 3350, LAA 3352, LAA 3421, LAA 3550, [LAA 6716](#), and ORH 3513.

Other

Landscape Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[Landscape Architecture Department](#)

Landscape Architecture Program

The Department of Landscape Architecture offers graduate programs leading to the Master of Landscape Architecture (M.L.A.) degree in Landscape Architecture. A Ph.D. degree with a concentration in Landscape Architecture is also offered through the College of Design, Construction and Planning. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Master of Landscape Architecture: The MLA is a Landscape Architecture Accreditation Board (LAAB) accredited professional Master's degree in Landscape Architecture. Graduation from an accredited program is an essential first step toward licensing in Florida and other states that regulate the practice of landscape architecture.

For more information, please see our website: <http://www.dcp.ufl.edu/landscape>.

Degrees Offered with a Major in Landscape Architecture

Master of Landscape Architecture

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Wetland Sciences

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Urban and Regional Planning Department

Director of School of Landscape Architecture and Planning: Kristin Larsen

Chair: Joseli Macedo

Graduate Coordinator: Stanley Latimer

Graduate Coordinator of Online Degree program: Ferdinand Lewis

Complete faculty listing by department: [Follow this link.](#)

Doctor of Philosophy: The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in Design, Construction, and Planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Arts in Urban and Regional Planning: The Department of Urban and Regional Planning offers graduate work leading to the degree of Master of Arts in Urban and Regional Planning (M.A.U.R.P.). Students are encouraged to enter the program in the fall semester. The program is usually completed in two academic years. The student entering with an undergraduate degree and no graduate study must complete 52 hours of credit for the M.A.U.R.P. degree. Students who have a master's degree in a related field may transfer up to 18 graduate semester hours toward the 52 hour requirement. Such a transfer of credit requires the approval of the Department. The Department encourages students with any undergraduate degree who are interested in the field of planning to apply for admission.

Complete descriptions of the requirements for the M.A.U.R.P. and Ph.D. degrees are provided in the *General Information* section of this catalog.

The urban and regional planning curriculum is designed to provide a set of core studies and contextual projects which prepare the graduate for the practice of planning in public or private agencies at both national and international levels. The core studies include history and theory of planning; planning methods; growth management at local, regional, and state levels; and related studies in community and regional social, natural, and economic systems. Contextual projects include, among many subject areas, urban design, transportation, regional planning, community

redevelopment and preservation, housing, real estate, and economic development. The program emphasizes planning, policies, and design for the physical environment. Current specializations include growth management and transportation, urban design, housing, community and economic development, information technologies for planning, and environmental planning. Students are also encouraged to take advantage of the extensive faculty, course offerings, and other resources available in the College of Design, Construction, and Planning and throughout the University. The Department has two research centers: The Geo-facilities Planning and Information Center (GeoPlan), the Center for Building Better Communities (CBBC), and the Center for Health and the Built Environment (CHBE).

The curriculum is supported by an extensive GIS laboratory, and a visual aid library. Variation from the core studies may be approved by the Department if the student can demonstrate education and experience to the faculty that would support such an alternative. The M.A.U.R.P. degree is accredited by the Planning Accreditation Board, a joint undertaking of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning, for having achieved the highest applicable standards for graduate education in the field of planning. Graduates of the Department are prepared to practice urban and regional planning.

The Department of Urban and Regional Planning and the College of Law offer a joint degree program (see *Requirements for Master's Degrees* in the *General Information* section of this catalog). Areas of concentration with other programs in the Graduate School may be developed to meet the individual needs of students. In addition to course work the student is required to complete an internship with a public or private planning office and the student must complete a thesis.

The Department reserves the right to retain student work for purposes of record, exhibition, or instruction.

Other

Urban and Regional Planning

College

[College of Design, Construction, and Planning](#)

Department/School

[Urban and Regional Planning Department](#)

Degrees Offered with a Major in Urban and Regional Planning

Master of Arts in Urban and Regional Planning

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- URP 6276: Internet Geographic Information Systems
- URP 6277: Land Use Visioning and Analysis
- URP 6610: International Development Planning
- URP 6711: Transportation and Land Use Coordination
- URP 6743: Affordable Housing Law
- URP 6855: Urban Form in Cities throughout the Americas
- URP 6887: Advanced Defensible Space in Urban Design

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation

- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Programs within the College of Engineering

College of Engineering

Dean: C. Abernathy

Complete faculty listings: [Follow this link.](#)

The College of Engineering is organized into a number of departments focusing on today's most pressing engineering questions. There is an interdisciplinary culture at the core of Gator Engineering, though, and researchers regularly collaborate with colleagues in departments and colleges beyond their own.

For more information, please see our website: <http://www.eng.ufl.edu>

[Departments and Programs within the College of Engineering](#)

[College of Engineering Courses](#)

Agricultural and Biological Engineering Department

[College of Agricultural and Life Sciences](#)

Chair: Dorota Z. Haman

Graduate Coordinator: Greg Kiker

Complete faculty listing by department: [Follow this link.](#)

The degrees of Master of Science, Master of Engineering and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at <http://www.abe.ufl.edu>.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Other

Agricultural and Biological Engineering (Engineering)

College

- [College of Agricultural and Life Sciences](#)
- [College of Engineering](#)

Department/School

[Agricultural and Biological Engineering Department](#)

Agricultural and Biological Engineering Program

The degrees of Master of Science, Master of Engineering, and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Additional information can also be found on the graduate studies pages on the department website at www.abe.ufl.edu.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Degrees Offered with a Major in Agricultural and Biological Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Agricultural and Biological Engineering Courses

- ABE 5015: Empirical Models of Crop Growth and Yield Response
- ABE 5038: Recent Developments and Applications in Biosensors
- ABE 5152: Electro-Hydraulic Circuits and Controls
- ABE 5332: Advanced Agricultural Structures
- ABE 5442: Advanced Agricultural Process Engineering
- ABE 5643C: Biological Systems Modeling
- ABE 5646: Biological and Agricultural Systems Simulation
- ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials
- ABE 5663: Advanced Applied Microbial Biotechnology
- ABE 5707C: Agricultural Waste Management
- ABE 5815C: Food and Bioprocess Engineering Design
- ABE 6005: Applied Control for Automation and Robots

- ABE 6031: Instrumentation in Agricultural Engineering Research
- ABE 6035: Advanced Remote Sensing: Science and Sensors
- ABE 6037C: Remote Sensing in Hydrology
- ABE 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6265: Vadose Zone Modeling
- ABE 6266: Nanotechnology in Water Research
- ABE 6615: Advanced Heat and Mass Transfer in Biological Systems
- ABE 6644: Agricultural Decision Systems
- ABE 6816: Food and Bioprocess Sterilization
- ABE 6905: Individual Work in Agricultural and Biological Engineering
- ABE 6910: Supervised Research
- ABE 6931: Seminar
- ABE 6933: Special Topics in Agricultural and Biological Engineering
- ABE 6940: Supervised Teaching
- ABE 6971: Research for Master's Thesis
- ABE 6972: Research for Engineer's Thesis
- ABE 6974: Nonthesis Project
- ABE 6986: Applied Mathematics in Agricultural and Biological Engineering
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- AOM5334C: Agricultural Chemical Application Technology
- AOM5431: GIS and Remote Sensing in Agriculture and Natural Resources
- AOM5435: Advanced Precision Agriculture
- AOM6905: Individual Work in Agricultural Operations Management
- AOM6932: Special Topics in Agricultural Operations Management
- CWR 6536: Stochastic Subsurface Hydrology
- PKG 5003: Advanced Distribution and Transport Packaging
- PKG 5006: Advanced Packaging Principles
- PKG 5105: Advanced Consumer Products Packaging
- PKG 5206C: Advanced Package Decoration
- PKG 5256C: Advanced Analytical Packaging Methods
- PKG 6100: Advanced Computer Tools for Packaging
- PKG 6905: Individual Work in Packaging
- PKG 6932: Special Topics in Packaging Sciences

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Biomedical Engineering Department

Chair: C. Schmidt

Graduate Coordinator: D. Hintenlang

Complete faculty listing by department: [Follow this link.](#)

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine. The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research. The BME Department currently focuses in: neural engineering, biomaterials, tissue engineering, biomechanics, nanomedicine, biomedical imaging and medical physics. A concentration in Medical Physics is available at both the M.S. and Ph.D. level and prepares students for clinical or research careers in medical imaging or radiation therapy. The Medical Physics concentration is fully accredited by CAMPEP. Additional information on admissions requirements, faculty, and research projects is available at: <http://www.bme.ufl.edu>.

BME graduate students are admitted directly through the BME Department. The BME Graduate Academic Committee reviews and makes all decisions regarding admission. Each student's research adviser must hold a Graduate Faculty appointment in the BME Department. Supervisory committees for BME students normally include at least one member from the College of Engineering and one from the College of Medicine to emphasize the need for a clinical focus in the research.

Other

Biomedical Engineering

College

[College of Engineering](#)

Department/School

[Biomedical Engineering Department](#)

Biomedical Engineering Program Information

The master's degree (thesis or nonthesis) requires at least 30 semester hours. The Ph.D. degree requires at least 90 semester credit hours beyond the bachelor's degree. No more than 30 hours of a master's degree from another institution will be transferred to the Ph.D. degree. If a student holds a master's degree in a discipline different from the doctoral program, the master's work will not be counted toward the doctoral degree unless the BME Department successfully petitions the Dean of the Graduate School. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Complete BME program details and courses available are listed in the Biomedical Engineering Graduate Guidelines, on the [BME web site](#) (which also offers information on available areas of study). Graduate-level courses in either the College of Engineering or the College of Medicine may be applied toward the BME degree programs with the approval of the supervisory committee chair and the graduate coordinator.

Combined program: Biomedical Engineering also offers a combined bachelor's/master's degree program in collaboration with the other departments in the College of Engineering. This program allows qualified students to earn both a bachelor's degree and a master's degree within 5 years for a net savings of 1 year. Contact the BME academic services office for more information or see <http://www.bme.ufl.edu/academics/combined>.

Degrees Offered with a Major in Biomedical Engineering

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Medical Physics

Master of Engineering

Master of Science

without a concentration

concentration in Medical Physics

Courses

- BME 5052L: Biomedical Engineering Laboratory
- BME 5085: Patents, Product Development, and Technology Transfer

- BME 5401: Biomedical Engineering and Physiology I
- BME 5407: Molecular Biomedical Engineering
- BME 5500: Biomedical Instrumentation
- BME 5703: Statistical Methods for Biomedical Engineering
- BME 5704: Advanced Computational Methods for Biomedical Engineering
- BME 5937: Special Topics
- BME 6010: Clinical Preceptorship
- BME 6324: Stem Cell Engineering
- BME 6330: Cell and Tissue Engineering
- BME 6360: Neural Engineering
- BME 6502: Introduction to Medical Imaging
- BME 6505: Advanced Diagnostic Radiological Physics
- BME 6522: Biomedical Multivariate Signal Processing
- BME 6533: Radiologic Anatomy
- BME 6534: Advanced Therapeutic Radiological Physics
- BME 6535: Radiological Physics, Measurements and Dosimetry
- BME 6590: Medical Physics
- BME 6591: Therapeutic Radiological Physics I
- BME 6592: Therapeutic Radiological Physics II
- BME 6593: Therapeutic Radiological Physics III
- BME 6705: Mathematical Modeling of Biological and Physiological Systems
- BME 6905: Individual Work in Biomedical Engineering
- BME 6907: BME Project
- BME 6910: Supervised Research
- BME 6936: Biomedical Engineering Seminar
- BME 6938: Special Topics in Biomedical Engineering
- BME 6940: Supervised Teaching
- BME 6971: Research for Master's Thesis
- BME 7979: Advanced Research
- BME 7980: Research for Doctoral Dissertation
- EEE 6504: Adaptive Signal Processing
- EEE 6512: Image Processing and Computer Vision
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology
- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure

College of Engineering and College of Medicine Courses

- [Click here for information about available College of Engineering courses.](#)

Chemical Engineering Department

Chair: R. Dickinson.

Graduate Coordinator: A. Chauhan.

Complete faculty listing by department: [Follow this link.](#)

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering

Other

Chemical Engineering

College

[College of Engineering](#)

Department/School

[Chemical Engineering Department](#)

Degrees Offered with a Major in Chemical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- BME 6221: Biomolecular Cell Mechanics
- BME 6322: Dynamics of Cellular Processes
- ECH 5708: Disinfection, Sterilization, and Preservation
- ECH 5938: Topics in Colloid Science
- ECH 6126: Thermodynamics of Reaction and Phase Equilibria
 - ECH 6207
- ECH 6270: Continuum Basis of Chemical Engineering
- ECH 6272: Molecular Basis of Chemical Engineering
- ECH 6285: Transport Phenomena
- ECH 6326: Computer Control of Processes
- ECH 6506: Chemical Engineering Kinetics
- ECH 6526: Reactor Design and Optimization
- BME 6644: Pharmacokinetics
- ECH 6709: Electrochemical Engineering Fundamentals and Design
- ECH 6726: Interfacial Phenomena I
- ECH 6727: Interfacial Phenomena II
- ECH 6843: Experimental Basis of Chemical Engineering
- ECH 6847: Mathematical Basis of Chemical Engineering
- ECH 6851: Impedance Spectroscopy
- ECH 6905: Individual Work
- ECH 6910: Supervised Research
- ECH 6926: Graduate Seminar
- ECH 6937: Topics in Chemical Engineering I
- ECH 6939: Topics in Chemical Engineering III
- ECH 6940: Supervised Teaching
- ECH 6971: Research for Master's Thesis
 - ECH 6XXX
- ECH 7938: Advanced Special Chemical Engineering Topics for Doctoral Candidates
- ECH 7979: Advanced Research
- ECH 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Civil and Coastal Engineering Department

Chair: K. Hatfield

Graduate Coordinator: A. Drescher

Complete faculty listing by department: [Follow this link.](#)

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in [CGN 6974](#) for civil engineering majors, or [EOC 6905](#) for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Other

Civil Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Civil Engineering Program

The civil engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy. The master's degree in civil engineering is also offered through the Electronic Delivery of Graduate Engineering (EDGE) program, which is a distance learning program delivered either via streaming video or DVD directly to the students. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Civil Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CCE 5035: Construction Planning and Scheduling
- CCE 5405: Construction Equipment and Procedures
- CCE 6037: Civil Engineering Operations I
- CCE 6038: Innovative Construction Techniques
- CCE 6505: Computer Applications in Construction Engineering
- CCE 6507: Computer Applications in Construction Engineering II
- CCE 6516: Topics in Airborne Laser Mapping Technology
- CEG 5105: Geotechnical Engineering
- CEG 5114: Advanced Geotechnical Aspects of Landfill Design
- CEG 5115: Foundation Design
- CEG 5205C: Insitu Measurement of Soil Properties
- CEG 5206: Geosensing I
- CEG 5805: Ground Modification Design
- CEG 6015: Advanced Soil Mechanics
- CEG 6116: Advanced Shallow Foundation Design
- CEG 6117: Advanced Deep Foundation Design
- CEG 6201: Experimental Determination of Soil Properties
- CEG 6207: Geosensing II
- CEG 6405: Seepage in Soils

- CEG 6505: Numerical Methods of Geomechanics
- CEG 6515: Earth Retaining Systems and Slope Stability
- CES 5010: Probabilistic and Stochastic Methods in Civil Engineering
- CES 5116: Finite Elements in Civil Engineering
- CES 5325: Design of Highway Bridges
- CES 5606: Topics in Steel Design
- CES 5607: Behavior of Steel Structures
- CES 5715: Prestressed Concrete
- CES 5726: Design of Concrete Systems
- CES 5801: Design and Construction in Timber
- CES 5835: Design of Reinforced Masonry Structures
- CES 6106: Advanced Structural Analysis
- CES 6108: Structural Dynamics
- CES 6165: Computer Methods in Structural Engineering
- CES 6551: Design of Folded Plates and Shells
- CES 6588: Protective Structures
- CES 6590: Impact Engineering
- CES 6591: Applied Protective Structures
- CES 6592: Retrofit Protective Structures
- CES 6593: Advanced Protective Structures
- CES 6706: Advanced Reinforced Concrete
- CES 6855: Condition Assessment of Structures
- CGN 5606: Public Works Management
- CGN 5715: Experimentation and Instrumentation in Civil Engineering Materials Research
- CGN 6155: Civil Engineering Practice I
- CGN 6156: Construction Engineering II
- CGN 6505: Properties, Design and Control of Concrete
- CGN 6506: Bituminous Materials
- CGN 6525: Sustainable Materials
- CGN 6905: Special Problems in Civil Engineering
- CGN 6910: Supervised Research
- CGN 6936: Civil Engineering Graduate Seminar
- CGN 6940: Supervised Teaching
- CGN 6971: Research for Master's Thesis
- CGN 6972: Research for Engineer's Thesis
- CGN 6974: Master of Engineering or Engineer Degree Report
- CGN 7979: Advanced Research
- CGN 7980: Research for Doctoral Dissertation
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6236: Sediment Transport I
- CWR 6255: Diffusive and Dispersive Transport
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- TTE 5305: Advanced Transportation Systems Analysis
- TTE 5006: Advanced Urban Transportation Planning
- TTE 5256: Traffic Engineering
- TTE 5805: Geometric Design of Transportation Facilities
- TTE 5835: Pavement Design
- TTE 5837: Pavement Management Systems
- TTE 6205: Freeway Operations and Simulation
- TTE 6259: Urban Streets Simulation and Control
- TTE 6267: Traffic Flow Theory
- TTE 6306: Computational Methods in Transportation Engineering
- TTE 6315: Highway Safety Analysis
- TTE 6505: Discrete Choice Analysis
- TTE 6606: Urban Transportation Models

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology

- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM5816: Intermediate Fluid Dynamics
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6441: Water Resources Planning and Management
- ENV 6508: Wetland Hydrology
- ENV 6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Coastal and Oceanographic Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Coastal and Oceanographic Engineering Program

The coastal and oceanographic engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy degree. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Coastal and Oceanographic Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Coastal and Oceanographic Engineering Courses

- EGM5816: Intermediate Fluid Dynamics
- EOC 5860: Port and Harbor Engineering
- EOC 6196: Littoral Processes
- EOC 6430: Coastal Structures
- EOC 6850: Numerical Simulation Techniques in Coastal and Ocean Engineering
- EOC 6905: Individual Study in Coastal and Oceanographic Engineering
- EOC 6932: Selected Field and Laboratory Problems
- EOC 6934: Advanced Topics in Coastal and Oceanographic Engineering
- EOC 6939: Graduate Seminar
- EOC 6971: Research for Master's Thesis
- EOC 6972: Research for Engineer's Thesis
- EOC 7979: Advanced Research
- EOC 7980: Research for Doctoral Dissertation
- OCP 5293: Coastal Processes
- OCP 6050: Physical Oceanography
- OCP 6165: Ocean Waves I: Linear Theory
- OCP 6165L: Ocean Waves Laboratory
- OCP 6167: Ocean Waves II: Nonlinear Theory
- OCP 6168: Data Analysis Techniques for Coastal and Ocean Engineers
- OCP 6169: Random Sea Analysis
- OCP 6295: Estuarine and Shelf Hydrodynamics I
- OCP 6297: Coastal and Estuarine Sediment Transport
- OCP 6298: Coastal Sediment Transport Processes

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM5816: Intermediate Fluid Dynamics
- ENV5518: Field Methods in Environmental Hydrology
- ENV5565: Hydraulic Systems Design
- ENV6050: Advanced Pollutant Transport
- ENV6052: Immiscible Fluids in Porous Media
- ENV6441: Water Resources Planning and Management
- ENV6508: Wetland Hydrology
- ENV6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Computer and Information Science and Engineering Department

[College of Engineering](#)

Chair: Paul Gader

Graduate Coordinator: Jih-kwon Peir

Complete faculty listing by department: [Follow this link.](#)

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Master of Engineering, Master of Science, and Ph.D. degrees in computer engineering through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems:** computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems:** database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms:** design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art:** modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision:** artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security:** wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing four specified graduate-level core courses (12 credits) or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- An additional 12 credits of course work beyond the core (a minimum of 6 graduate-level credits in CISE and with approval, at most 6 credits in some other department), and a written thesis.
- A minimum of 6 credit hours must be taken in CIS 6971.

The non-thesis option requires:

- An additional 12 credits of letter-graded course work in CISE beyond the core
- 6 letter-graded credits from either CISE or (with approval) from some other department.
- Each nonthesis master's student is required to pass a comprehensive examination.

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: <http://www.cise.ufl.edu>

Other

Computer Engineering

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Computer Engineering Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science and the Doctor of Philosophy degrees in Computer Engineering through the College of Engineering. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in Algorithms, Computer Vision, Databases, Graphics and Modeling, Machine Learning, Networks, and Systems, with active labs in Bioinformatics; Computational Science and Intelligence; Vision, Graphics and Medical Imaging; Database Systems Research and Development; Data Science Research; Mobile and Pervasive Computing; Human-Centered Computing; and Cybersecurity.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees Offered with a Major in Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

without a concentration

concentration in Digital Arts and Sciences

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles

- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Digital Arts and Sciences (Engineering)

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Digital Arts and Sciences (Engineering) Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science degree in Digital Arts and Sciences through the College of Engineering. Minimum requirements for this degree are given in the [Graduate Degrees](#) section of this catalog.

This specialized program integrates engineering and design and was created for students with an interest in video games, human-computer interaction, 3D modeling and animation, virtual reality, and computer graphics. The curriculum includes core computer science with a special emphasis on human-centered computing and provides students the flexibility to focus on both computer science and design, and to create software that is computationally complex, user friendly and aesthetically pleasing.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees

Master of Science

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing

- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Electrical and Computer Engineering Department

Chair: J. Harris.

Graduate Coordinators: G. Bosman, J. McNair

Complete faculty listing: [Follow this link.](#)

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For more information about our program, please visit the link below.

Other

Electrical and Computer Engineering

College

[College of Engineering](#)

Department/School

[Electrical and Computer Engineering Department](#)

Electrical and Computer Engineering Program Information

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in computer engineering, devices, electromagnetics and energy systems, electronics, and signals and systems.

Graduate students in the Department of Electrical and Computer Engineering have bachelor's degrees from many areas: electrical engineering, other engineering disciplines, chemistry, mathematics, physics, and other technical fields. The Department of Electrical and Computer Engineering offers both thesis and nonthesis options for the master's degrees.

In the *thesis option* a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of [EEL 6971](#) (Research for Master's Thesis). While the Graduate School sets the minimum requirements, the supervisory committee determines the appropriate number of thesis hours a student shall be required to take for the thesis. Other course requirements include a minimum of 18 hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis). No more than 6 hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)) may be counted toward the degree.

In the nonthesis option a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)). The course requirements include a minimum of 21 semester credit hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis).

The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and master's degree with a saving of one semester. Qualified students may begin their master's programs while seniors, counting up to 12 hours of specified electrical and computer engineering graduate courses for both bachelor's and master's degree requirements. Bachelor's/master's program admission requirements are (1) satisfaction of Graduate School admission requirements for the master's degree, (2) an upper-division (undergraduate) GPA of at least 3.3, and (3) completion of at least 7 EEL core courses and 2 EEL laboratories. Students with a GPA between 3.3 and 3.59 can double count up to 6 hours, while students with a GPA of 3.6 or higher can double count up to 12 hours.

All prospective doctoral students must take the written part of the Ph.D. qualifying examination within the first year of enrollment. Other requirements for the doctoral degree, as well as requirements for master's and engineer degrees, are given in the Electrical and Computer Engineering Department's Graduate Guidelines (see <http://www.ece.ufl.edu/content/graduate-academics>) and in the front section of this catalog.

The following course listing indicates the major areas of faculty interest. Special topics courses [EEL 5934](#) and [EEL 6935](#) cover a wide variety of subjects for which there are no present courses.

Degrees Offered with a Major in Electrical and Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- CNT 6805: Network Science and Applications
- EEE 5317C: Introduction to Power Electronics
- EEE 5320: Bipolar Analog IC Design
- EEE 5322: VLSI Circuits and Technology
- EEE 5364: Fundamentals of Data Converters
- EEE 5400: Future of Microelectronics Technology
- EEE 5405: Microelectronic Fabrication Technologies
- EEE 5426: Introduction to Nanodevices
- EEE 6287: Brain Machine Interface Engineering
- EEE 6321: MOS Analog IC Design
- EEE 6323: Advanced VLSI Design
- EEE 6325: Computer Simulation of Integrated Circuits and Devices
- EEE 6328C: Microwave IC Design
- EEE 6374: Radio Frequency (RF) Integrated Circuits and Technologies
- EEE 6382: Semiconductor Physical Electronics
- EEE 6390: VLSI Device Design

- EEE 6397: Semiconductor Device Theory I
- EEE 6402: Nonclassical Si-Based Nanoscale CMOS Devices
- EEE 6428: Computational Nanoelectronics
- EEE 6431: Carbon Nanotubes
- EEE 6460: Advanced Microsystem Technology
- EEE 6465: Design of MEMS Transducers
- EEL 5182: State Variable Methods in Linear Systems
- EEL 5225: Principles of Micro-Electro-Mechanical Transducers
- EEL 5400: Airborne Sensors and Instrumentation
- EEL 5401: Airborne Laser Scanning: Data Processing and Analysis
- EEL 5441: Fundamentals of Photonics
- EEL 5462: Advanced Antenna Systems
- EEL 5490: Lightning
- EEE 5502: Foundations of Digital Signal Processing
- EEE 5544: Noise in Linear Systems
- EEE 5556: Electronic Countermeasures
- EEL 5666C: Intelligent Machines Design Laboratory
- EEL 5718: Computer Communications
- EEL 5721: Reconfigurable Computing
- EEL 5737: Principles of Computer System Design
- EEL 5764: Computer Architecture
- EEL 5840: Elements of Machine Intelligence
- EEL 5905: Individual Work
- EEL 5934: Special Topics in Electrical Engineering
- EEL 6065: Electrical & Computer Engineering Technical Writing
- EEL 6264: Advanced Electric Energy Systems I
- EEL 6265: Advanced Electric Energy Systems II
- EEL 6443: Integrated and Fiber Optics
- EEL 6486: Electromagnetic Field Theory and Applications I
- EEL 6487: Electromagnetic Field Theory and Applications II
- EEE 6504: Adaptive Signal Processing
- EEL 6507: Queuing Theory and Data Communications
- EEL 6509: Wireless Communication
- EEE 6503: Digital Filtering
- EEL 6532: Information Theory
- EEL 6533: Statistical Decision Theory
- EEL 6535: Digital Communications
- EEL 6537: Spectral Estimation
- EEL 6550: Error Correction Coding
- EEE 6512: Image Processing and Computer Vision
- EEL 6528: Digital Communications with Software-defined Radios
- EEL 6555: Signal Processing for Active Sensing
- EEE 6586: Automatic Speech Processing
- EEL 6588: Wireless Ad Hoc Networks
- EEL 6591: Wireless Networks
- EEL 6614: Modern Control Theory
- EEL 6617: Linear Multivariable Control
- EEL 6619: Robust Control Systems
- EEL 6686: Embedded Systems Seminar
- EEL 6706: Fault-Tolerant Computer Architecture
- EEL 6763: Parallel Computer Architecture
- EEL 6769: Hardware-Software Interactions: Nonnumeric Processing
- EEL 6814: Neural Networks for Signal Processing
- EEL 6825: Pattern Recognition and Intelligent Systems
- EEL 6841: Machine Intelligence and Synthesis
- EEL 6871: Autonomic Computing
- EEL 6892: Virtual Computers
- EEL 6905: Individual Work
- EEL 6910: Supervised Research
- EEL 6933: Electrical and Computer Engineering Graduate Seminar
- EEL 6935: Special Topics in Electrical Engineering
- EEL 6940: Supervised Teaching
- EEL 6971: Research for Master's Thesis
- EEL 6972: Research for Engineer's Thesis
- EEL 7979: Advanced Research
- EEL 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Environmental Engineering Sciences Department

Director: K. Hatfield

Graduate Coordinator: P. Chadik

Complete faculty listing [Follow this link.](#)

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering; Systems Ecology and Ecological Engineering and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas. Please visit the link below for more information about our program in Environmental Engineering Sciences.

Other

Environmental Engineering Sciences

College

[College of Engineering](#)

Department/School

[Environmental Engineering Sciences Department](#)

Environmental Engineering Sciences Program Information

Graduate study is offered leading to the degrees Master of Engineering, Master of Science, and Doctor of Philosophy in the field of environmental engineering sciences. Our graduate research and education areas are

Air Resources

- Monitoring of air pollutants: indoor, ambient, industrial, and occupational
- Monitoring methodology and instrumentation development
- Formation and fate of air pollutants
- Air quality modeling
- Air pollution control: system, process and materials
- Sustainability of air quality
- Health effects and environmental impact of air pollutant

Biogeochemical Systems

- Green Engineering
- Microbiology of Natural and Engineered Systems
- Environmental Fate and Transport of Pollutants in Soils and Aquatic Systems
- Biological and Chemical Remediation of Contaminated Systems
- Environmental Toxicology and Nanotoxicology
- Effects of Climate and Land Use Changes on Biogeochemical Cycles
- Aqueous Geochemistry and Water Treatment

Environmental Nanotechnology

- Manufacturing and tailoring of nanomaterials and nanodevices for application in environmental and human health research
- Environmental fate and transport of nanomaterials
- Environmental implications of nanomaterials

Solid and Hazardous Waste Management

- Bioreactor Landfills
- Combustion and Thermal Treatment Residuals
- Contaminated Soil Characterization and Treatment
- Construction and Demolition Debris
- Electronic Waste
- Hazardous Waste
- Landfill Design and Operations
- Landfill Gas and Leachate
- Recycling and Beneficial Use of Wastes
- Treated Wood
- Waste Characterization and Leaching
- Solid Waste Management in Developing Countries

Stormwater, Water Supply and Wastewater

- Fundamental characterization of aqueous and particulate-phase contaminants including emerging contaminants: representative ambient monitoring methodology and load quantification.
- Sourcing and generation of aqueous and particulate phase contaminants, physics and chemistry of contaminant transport and fate.
- Water contaminant control: systems, unit operation and processes, and materials development, in particular innovative mass transfer materials and low impact development materials.
- Water reuse as part of the urban water cycle: volumetric and contaminant load impacts
- Unit operation and process modeling: scalable physical models and computational fluid dynamics (CFD).
- Integrated physical, chemical, biological and thermal treatment phenomena for water cycle components.
- Coupling fundamental monitoring and material balance testing with urban water modeling
- Fundamental and applied studies of physical-chemical water treatment processes, such as adsorption, coagulation, ion exchange, and oxidation, for a wide range of water qualities including surface water, groundwater, membrane concentrate, landfill leachate, and human urine.
- Innovative applications of ion exchange for water treatment.
- Fundamental studies in aquatic chemistry with a focus on the role of natural organic matter.

- Fundamental and applied studies of adsorption and photocatalysis, including surface optimization
- Bottom up integrated urban water system simulation and optimization

Sustainability Science & Engineering

- Rational design of nanomaterial through acute and full-life-cycle toxicity assessment
- Life cycle assessment calculations and comparisons of alternative energy and materials options
- Industrial ecology
- Corporate water resources sustainability
- Campus green building codes
- Green laboratory techniques
- Operation of buildings to meet green energy requirements

Systems Ecology and Ecological Engineering

- Ecological Engineering
- Energy Analysis
- Wetlands ecosystem research
- Ecological Modeling
- Estuarine Systems

Water Resources

- Contaminant transport and fate
- Decision support systems
- Ecohydrology and hydrologic restoration
- Hydrology
- Stormwater control
- Water resources planning and management
- Water conservation
- Urban water infrastructure

Graduate students can also combine one or more of the above areas with specialties in other departments at the University of Florida.

The department participates in the hydrologic sciences interdisciplinary concentration that is offered through 9 departments in 3 colleges. This concentration is described under Interdisciplinary Graduate Studies.

Direct admission into the Master of Science and Doctor of Philosophy programs requires a bachelor's degree in engineering or in a basic science such as chemistry, geology, physics, biology, or mathematics. Persons with a degree in a nontechnical field may also be admitted into this program after completing appropriate technical courses. Direct admission into the Master of Engineering program requires a bachelor's degree in engineering.

Requirements for a master's degree normally take 12 to 24 months to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, and may be completed in 3 years, but often takes longer, depending on prior academic experience.

Concurrent program: The department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree, with a savings of 12 credits.

Joint program: The Environmental Engineering Sciences Department, in partnership with the Levin College of Law, offers a joint program leading to the M.S. or M.E. degree in environmental engineering sciences and the Juris Doctor degree. Twelve credits of appropriate course work are counted toward both degrees.

Degrees Offered with a Major in Environmental Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CEG 5206: Geosensing I
- CWR 6115: Surface Hydrology
- CWR 6116: Advanced Surface Hydrology
- CWR 6252: Environmental Biochemistry of Trace Metals
- CWR 6536: Stochastic Subsurface Hydrology
- CWR 6537: Contaminant Subsurface Hydrology
- EES 5105: Advanced Wastewater Microbiology
- EES 5107: Ecological and Biological Systems
- EES 5207: Environmental Chemistry
- EES 5245: Water Quality Analysis
- EES 5305C: Ecological and General Systems
- EES 5306: Energy Analysis
- EES 5307: Ecological Engineering
- EES 5315: Ecology and the Environment
- EES 5415: Environmental Health
- EES 6007: Advanced Energy and Environment
- EES 6009: Ecological Economics
- EES 6026C: Environmental Systems Dynamics
- EES 6028: Spatial Modeling Using Geographic Information Systems
- EES 6051: Advanced Environmental Planning and Design

- EES 6135: Aquatic Microbiology
- EES 6136: Aquatic Autotrophs
- EES 6137: Aquatic Heterotrophs
- EES 6140: Biology of Exotic Species
- EES 6371: Environmental Meteorology and Oceanography
- EES 6208: Principles of Water Chemistry I
- EES 6209: Principles of Water Chemistry II
- EES 6225: Atmospheric Chemistry
- EES 6246: Advanced Water Analysis
- EES 6301: Comparative Approaches in Systems Ecology
- EES 6308C: Wetland Ecology
- EES 6309: Wetland Treatment Systems
- EES 6318: Principles of Industrial Ecology
- EES 6335: Springs Ecosystems
- EES 6356: Estuarine Systems
- EES 6405: Environmental Toxicology
- ENV 6439: Activated Carbon: Environmental Design and Application
- ENV 5072: Pollution Control and Prevention
- ENV 5075: Environmental Policy
- ENV 5105: Foundations of Air Pollution
- ENV 5305: Advanced Solid Waste Treatment Design
- ENV 5306: Municipal Refuse Disposal
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5520: Fluid Flow in Environmental Systems
- ENV 5555: Wastewater Treatment
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6116: Air Pollution Sampling and Analysis
- ENV 6126: Air Pollution Control Design
- ENV 6130: Aerosol Mechanics
- ENV 6146: Atmospheric Dispersion Modeling
- ENV 6215: Health Physics
- ENV 6216: Radioactive Wastes
- ENV 6301: Advanced Solid Waste Containment Design
- ENV 6435: Advanced Water Treatment Process Design
- ENV 6435C: Advanced Water Treatment Process Design
- ENV 6435L: Water Treatment Process Design Laboratory
- ENV 6437: Advanced Wastewater System Design
- ENV 6438: Advanced Potable Water Systems Design
- ENV 6441: Water Resources Planning and Management
- ENV 6416: Advanced Stormwater Control Systems
- ENV 6508: Wetland Hydrology
- ENV 6510: Groundwater Restoration
- ENV 6511: Biological Wastewater Treatment
- ENV 6556: Advanced Waste Treatment Operations
- ENV 6617: Principles of Green Engineering Design and Sustainability
- ENV 6905: Individual Work
- ENV 6910: Supervised Research
- ENV 6916: Nonthesis Project
- ENV 6932: Special Problems in Environmental Engineering
- ENV 6935: Graduate Environmental Engineering Seminar
- ENV 6971: Research for Master's Thesis
- ENV 7979: Advanced Research
- ENV 7980: Research for Doctoral Dissertation

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM 5816: Intermediate Fluid Dynamics
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6441: Water Resources Planning and Management
- ENV 6508: Wetland Hydrology
- ENV 6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab

- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Industrial and Systems Engineering Department

Chair: J. Geunes.

Graduate Coordinator: J. C. Smith and P. Momcilovic.

Complete faculty listing by department: [Follow this link.](#)

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Engineer degree and the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., Engineer, and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

Other

Industrial and Systems Engineering

College

[College of Engineering](#)

Department/School

[Industrial and Systems Engineering Department](#)

Degrees Offered with a Major in Industrial and Systems Engineering

Doctor of Philosophy

without a concentration

concentration in Quantitative Finance

Engineer

Master of Engineering

Master of Science

Industrial and Systems Engineering Courses

- EIN 6227: Advanced Quality Management and Engineering for Business Processes
- EIN 6336: Advanced Production and Inventory Control
- EIN 6357: Advanced Engineering Economy
- EIN 6367: Facilities Layout and Location
- EIN 6392: Manufacturing Management
- EIN 6905: Special Problems
- EIN 6910: Supervised Research
- EIN 6918: Graduate Seminar
- EIN 6940: Supervised Teaching
- EIN 6971: Research for Master's Thesis
- EIN 6972: Research for Engineer's Thesis
- EIN 7933: Special Problems
- EIN 7979: Advanced Research
- EIN 7980: Research for Doctoral Dissertation
- ESI 5236: Reliability Engineering
- ESI 6162C: Advanced Industrial Applications of Microprocessors
- ESI 6314: Deterministic Methods in Operations Research
- ESI 6321: Applied Probability Methods in Engineering
- ESI 6323: Models for Supply Chain Management
- ESI 6341: Intro to Stochastic Optimization
- ESI 6355: Decision Support Systems for Industrial and Systems Engineers
- ESI 6417: Linear Programming and Network Optimization
- ESI 6418: Linear Programming Extensions and Applications
- ESI 6420: Fundamentals of Mathematical Programming
- ESI 6429: Introduction to Nonlinear Optimization
- ESI 6448: Discrete Optimization Theory
- ESI 6449: Integer Programming
- ESI 6470: Principles of Manufacturing Systems Engineering
- ESI 6492: Global Optimization
- ESI 6529: Digital Simulation Techniques
- ESI 6533: Advanced Simulation Design and Analysis
- ESI 6546: Stochastic Modeling and Analysis
- ESI 6552: Systems Architecture
- ESI 6553: Systems Design
- ESI 6555: Systems Management
- ESI 6912: Advanced Topics in ISE

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Materials Science and Engineering Department

Chair: S. Phillpot

MSE Graduate Coordinator: J. J. Mecholsky, Jr.

NE Graduate Coordinator: E. Dugan

Complete faculty listing by department: [Follow this link.](#)

The Department of Materials Science and Engineering offers the Master of Science and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis),

awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

The faculties of the Department of Materials Science and Engineering (MSE) of the University of Florida (UF) and the University of Roma Tor Vergata (URTV) have approved a cooperative degree program in Materials Science and Engineering culminating in a Doctor of Philosophy degree, awarded by both universities. Contact the Department for details.

Other

Materials Science and Engineering

College

[College of Engineering](#)

Department/School

[Materials Science and Engineering Department](#)

Degrees Offered with a Major in Materials Science and Engineering

Doctor of Philosophy

without a concentration

in concentration in Clinical and Translational Science

Master of Engineering

Master of Science

Courses

- EMA 5008: Particle Science and Technology: Theory and Practice
- EMA 5095: Critical Analysis of Research in Materials Science & Engineering
- EMA 5108: Vacuum Science and Technology
- EMA 5365: Biomimetic Synthesis
- EMA 6001: Properties of Materials - A Survey
- EMA 6005: Thin and Thick Films
- EMA 6105: Fundamentals and Applications of Surface Science

- EMA 6106: Advanced Phase Diagrams
- EMA 6107: High Temperature Materials
- EMA 6109: Physical Chemistry of High Temperature Materials
- EMA 6110: Electron Theory of Solids for Materials Scientists I
- EMA 6111: Electron Theory of Solids for Materials Scientists II
- EMA 6114: Advanced Materials Principles 2
- EMA 6128: Materials Microstructures
- EMA 6136: Diffusion, Kinetics, and Transport Phenomena
- EMA 6165: Polymer Physical Science
- EMA 6166: Polymer Composites
- EMA 6226: Synthesis and Properties of Metallic Nanostructures
- EMA 6227: Advanced Mechanical Metallurgy II
- EMA 6265: Mechanical Properties of Polymers
- EMA 6313: Advanced Materials Principles I
- EMA 6315: Colloidal Hydrodynamics
- EMA 6316: Materials Thermodynamics
- EMA 6319: Applied Colloid and Interfacial Chemistry for Engineers
- EMA 6412: Synthesis and Characterization of Electronic Materials
- EMA 6416: Organic Electronics
- EMA 6445: Electroceramics
- EMA 6446: Solid State Ionics
- EMA 6448: Ceramic Processing
- EMA 6461: Polymer Characterization
- EMA 6507: Scanning Electron Microscopy and Microanalysis
 - EMA 6507C
- EMA 6507L: Scanning Electron Microscopy and Microanalysis Lab
- EMA 6510: Survey of Materials Analysis Techniques
- EMA 6512C: X-ray Scattering for Thin Film Analysis
- EMA 6518: Transmission Electron Microscopy
- EMA 6518L: Transmission Electron Microscopy Laboratory
- EMA 6519L: Specialized Research Techniques in Materials Science
- EMA 6540: Fundamentals of Crystallography
- EMA 6541: Applied Crystallography and Powder Diffraction
- EMA 6580: Science of Biomaterials I
- EMA 6581C: Polymeric Biomaterials
- EMA 6589: Mechanical Behavior of Biomaterials
- EMA 6590: Advances in Biomaterials and Tissue Engineering for Healthcare
- EMA 6591: Clinical Applications of Biomaterials and Tissue Engineering
- EMA 6616: Advanced Electronic Materials Processing
- EMA 6625: Advanced Metals Processing
- EMA 6667: Polymer Processing
- EMA 6715: Fracture of Brittle Materials
- EMA 6803: Classical Methods in Computational Materials Science
- EMA 6804: Quantum Methods in Computational Materials Science
- EMA 6805: Mathematical Methods in Materials Science I
- EMA 6806: Mathematical Methods in Materials Science II
- EMA 6808: Error Analysis and Optimization Methodologies in Materials Research
- EMA 6905: Individual Work in Materials Science and Engineering
- EMA 6910: Supervised Research
- EMA 6936: Seminar in Materials Science and Engineering
- EMA 6938: Special Topics in Materials Science and Engineering
- EMA 6971: Research for Master's Thesis
 - EMA 6xxxA
 - EMA 6xxxB
 - EMA 6XXXL
- EMA 7979: Advanced Research
- EMA 7980: Research for Doctoral Dissertation
- ENU 6805: Introduction to Nuclear Reactor Materials

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn

Graduate Coordinator: D. W. Mikolaitis

Complete faculty listing by department: [Follow this link.](#)

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), Engineer, and Doctor of Philosophy in aerospace engineering and mechanical engineering. Minimum requirements for these degrees are given in the *General Information* section of this catalog. Additional information can be found at <http://www.mae.ufl.edu/graduate>. Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of

challenging problems. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Other

Aerospace Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Aerospace Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics
- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
- EAS 6910: Supervised Research
- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
- EGM5533: Applied Elasticity and Advanced Mechanics of Solids
- EGM5584: Biomechanics of Soft Tissue
- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III
- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials

- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
- EGM7980: Research for Doctoral Dissertation
- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics
- EML 5124: Two-Phase Flow and Boiling Heat Transfer
- EML 5131: Combustion
- EML 5215: Analytical Dynamics I
- EML 5223: Structural Dynamics
- EML 5224: Acoustics
- EML 5233: Failure of Materials in Mechanical Design
- EML 5311: Control System Theory
- EML 5318: Computer Control of Machines and Processes
- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers
- EML 5515: Gas Turbines and Jet Engines
- EML 5516: Design of Thermal Systems
- EML 5526: Finite Element Analysis and Application
- EML 5595: Mechanics of the Human Locomotor System
- EML 5598: Orthopedic Biomechanics
- EML 5605: Advanced Refrigeration
- EML 5714: Introduction to Compressible Flow
- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II
- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I
- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control
- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
- EML 6451: Energy Conversion
- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Mechanical Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Mechanical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics
- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
- EAS 6910: Supervised Research
- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
- EGM5533: Applied Elasticity and Advanced Mechanics of Solids
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- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III
- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials
- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
- EGM7980: Research for Doctoral Dissertation
- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics
- EML 5124: Two-Phase Flow and Boiling Heat Transfer
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- EML 5215: Analytical Dynamics I
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- EML 5311: Control System Theory

- EML 5318: Computer Control of Machines and Processes
- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers
- EML 5515: Gas Turbines and Jet Engines
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- EML 5605: Advanced Refrigeration
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- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II
- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I
- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control
- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
- EML 6451: Energy Conversion
- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Nuclear and Radiological Engineering Department

Chair: D. Hintenlang

Graduate Coordinator: W. Bolch

Complete faculty listing: [Follow this link.](#)

The Department offers the degrees of Master of Science, Master of Engineering, and Doctor of Philosophy in nuclear engineering sciences with emphases in nuclear power engineering, medical physics, and health physics. Complete descriptions of the minimum requirements for these degrees are provided in the *General Information* section of this catalog.

The medical physics and health physics options are offered through interdepartmental programs in cooperation with the College of Medicine (see the *Health Physics and Medical Physics* description under *Interdisciplinary Graduate Studies*).

Combined Program — The Department also offers a B.S.N.E./M.S. degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students may begin their master's program while seniors counting 12 hours of specified nuclear engineering sciences graduate courses for both the bachelor's and master's degree requirements. Seniors admitted to the combined program are eligible for teaching and research assistantships. Program admission requirements are (1) satisfaction of Graduate School admission requirements for a master's degree, (2) an upper-division (undergraduate) GPA of at least 3.6, and (3) completion of specified bachelor's degree requirements.

The graduate program has two major programs, Nuclear Engineering and Medical Physics. Specific areas of research and study in Nuclear Engineering include advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, and advanced radiation detectors and analysis in support of nuclear forensics and homeland security. The Medical Physics program is a CAMPEP accredited program designed to meet the professional requirements for a career in clinical service or research and development. Areas of Medical Physics study and research include diagnostic medical imaging, radiation therapy, nuclear medicine imaging, and radiation dosimetry.

The requirement for admission to the graduate program in nuclear engineering sciences is a bachelor's degree in an approved program in engineering or in the sciences. Students applying to the Medical Physics program should have completed the equivalent of at least a minor in physics. If the student's background is considered deficient for the planned course of study, an articulation program of background courses will be required.

Depending on professional objectives, the student may select a non-thesis option for the MS degree and substitute 8 credits of graduate-level course work, of which at least 6 credits are in nuclear engineering sciences, including a 4-credit (minimum) special project, [ENU 6936](#). Completion of 32 credits will meet the minimum requirements for the non-thesis MS degree.

Normally, the requirements for a master's degree can be completed in 12 months. Students in the medical physics option usually take 21 to 24 months to complete the master's degree, which requires 40-42 credit hours. For a master's degree in health physics, a student must complete 42 hours of credit. If articulation work is required, it may take longer, depending upon the extent of the student's deficiency.

Other

Nuclear Engineering Sciences

College

[College of Engineering](#)

Department/School

[Nuclear and Radiological Engineering Department](#)

Degrees Offered with a Major in Nuclear Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

Master of Engineering

Master of Science

Courses

- ENU 5142: Reliability and Risk Analysis for Nuclear Facilities
- ENU 5176L: Principles of Nuclear Reactor Operations Laboratory
- ENU 5186: Nuclear Fuel Cycles
- ENU 5196: Nuclear Reactor Power Plant System Dynamics and Control
- ENU 5516L: Nuclear Engineering Laboratory II
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology
- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 5705: Advanced Concepts for Nuclear Energy
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6053: Radiation Interaction Basics and Applications II
- ENU 6061: Survey of Medical Radiological Physics
- ENU 6106: Nuclear Reactor Analysis I
- ENU 6107: Nuclear Reactor Analysis II
- ENU 6126: Fundamentals of Reactor Kinetics
- ENU 6135: Nuclear Thermal Hydraulics
- ENU 6623: Radiation Dosimetry
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6651: Clinical Rotation in Radiation Therapy
- ENU 6652: Clinical Rotation in Diagnostic Radiology

- ENU 6655: Advanced Diagnostic Radiological Physics
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure
- ENU 6835: Nuclear Fuels
- ENU 6905: Individual Work
- ENU 6910: Supervised Research
- ENU 6935: Nuclear and Radiological Engineering Seminar
- ENU 6936: Special Projects in Nuclear and Radiological Engineering Sciences
- ENU 6937: Special Topics in Nuclear and Radiological Engineering Sciences
- ENU 6971: Research for Master's Thesis
- ENU 6972: Research for Engineer's Thesis
- ENU 7979: Advanced Research
- ENU 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Programs within the College of Journalism and Communications

College of Journalism and Communications

Dean: D. McFarlin

Senior Associate Dean for Graduate Studies and Research: D. Treise

Graduate Coordinators:

(Advertising) J. R. Goodman

(International Communication) M. Leslie

(Journalism) R. Rodgers

(Public Relations) M.A. Ferguson

(Science/Health Communication) D. Treise

(Telecommunication) J. Cleary.

Complete faculty listings: [Follow this link.](#)

Through the Division of Graduate Studies and Research, the College of Journalism and Communications offers the Doctor of Philosophy degree, the Master of Arts in Mass Communication (thesis or project option) degree, and the Master of Advertising (thesis) degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Doctoral students work closely with faculty members in research leading to a dissertation embodying a humanities, law/policy, or social sciences approach. Emphases within these approaches for which faculty members have expertise include advertising, journalism, public relations, telecommunication, international communication, and political communication. Details of doctoral faculty research interests and other aspects of the program are given in the College's Ph.D. Handbook.

Master's students may complete a thesis in advertising, journalism, public relations, telecommunication, international communication, or science/health communication. With the approval of the Sr. Associate Dean of Graduate Studies and Research and other faculty members, master's students may develop an individualized program of study, with thesis, to meet their specific needs and interests. A project in lieu of thesis option is available for some specializations.

Mass Communication/Law joint degree programs: Programs leading to the Master of Arts in Mass Communication or the Doctor of Philosophy and the Juris Doctor are offered under the joint auspices of the College of Journalism and Communications and the College of Law. For students interested in scholarship or practice of communication law or in reporting on the law, the programs offer the opportunity to blend relevant work from the two colleges. Students must meet the entrance requirements of both colleges. A thesis or dissertation is required. Interested students should apply for admission to both the Graduate School and the College of Law, noting on the applications the joint nature of the admission requests. Further information on the programs and on application procedures is available from the Holland Law Center and from the Division of Graduate Studies and Research of the College of Journalism and Communications.

General admission: Admission is granted to applicants with and without background in mass communication. Students without academic preparation in mass communication or appropriate experience may be required to take articulation work. These courses are taken concurrently with general graduate courses, starting in the first term of registration. Some degree plans require a background course in statistics. Students who have satisfied that requirement must provide written verification. Including articulation courses, the master's degree normally can be earned in one and one-half or two years of full-time study. Doctoral studies require three or more years of full-time study and research. Students who may require articulation courses should contact the Sr. Associate Dean of Graduate Studies and Research.

Grading policy: Any student whose cumulative GPA falls below 3.0 will be placed on probation. Any doctoral student who receives one grade below B- or a Master's student who receives one grade below C+ will be placed on probation, with the exception of courses taken from the Levin College of Law. For these courses, any student receiving one grade below C in any course from the Levin College of Law will be placed on probation. A requirement of the probation is that the student must achieve or maintain a cumulative grade point average of 3.0 or higher at the end of the next academic term in residence. A student who fails to satisfy the requirement will be suspended. A Doctoral student who accumulates two grades below "B-" or a Master's student who accumulates two grades below C+ during graduate studies will be suspended, as will a student who receives one grade of "D+" or lower at any time. Students will be allowed only one suspension.

Combined degree program: The College offers a combined bachelor's/master's program. For information, contact the Associate Dean for Graduate Studies.

For additional information, please see our website: <http://www.jou.ufl.edu/grad>.

[College of Journalism and Mass Communication Courses](#)

Other

Advertising

College

[College of Journalism and Communications](#)

Advertising Program Information

The Master of Advertising (M.Adv.) program is designed to develop leaders in the profession by providing students with

1. the theoretical, research and decision-making skills essential for strategic advertising and integrated communications planning, as well as
2. the opportunity to develop expertise in a specialized area such as account management, research, creative strategy, media planning, new technology and advertising sales management.

Students without basic course background or substantial professional experience in marketing or advertising are required to complete articulation courses before entering the program. These prerequisite courses include Introduction to Advertising and Introduction to Marketing.

A minimum of 33 graduate level credit hours, including a thesis, is required. In some areas of specialization, with permission from the departmental graduate faculty, a terminal project may be elected in lieu of a thesis.

Students select a supervisory committee to guide their course selection as well as thesis topic or project in lieu of thesis and completion of the thesis or project. Students will complete and orally defend their theses or projects. The student's supervisory committee is responsible for the evaluation of the document and the final defense.

The deadline for Fall applications is January 30 for international applicants and April 1 for domestic students. Applications may be considered after the April 1 deadline, if space is available. The Master of Advertising program does not accept any applications for Spring.

For admissions information and application materials, contact [Sarah G. Lee](#).

For information about the advertising curriculum and program requirements, contact [Dr. Robyn Goodman](#).

For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/master-of-advertising>

Degrees Offered with a Major in Advertising

Master of Advertising

College of Journalism and Communications Courses

- ADV 5005: Advertising Planning
- ADV 6006: Theories of Advertising
- ADV 6305: Advanced Media Planning
- ADV 6325: Advertising and Social Media
- ADV 6405: International Advertising
- ADV 6503: Advertising Creative Strategy and Research
- ADV 6505: Advertising Research Methods
- ADV 6602: Advertising Management
- COM 6315: Advanced Research Methods
- COM 6338: Advanced Web Topics I: Advanced Design
- COM 6940: Supervised Teaching
- FIL 6061: History of Documentary Film I
- FIL 6062: History of Documentary Film II
- FIL 6101: Advanced Radio, Television, and Film Writing
- FIL 6315: Writing for Documentary I
- FIL 6317: Producing and Writing the Documentary
- FIL 6335: Business of Documentary
- FIL 6340: Issues and Problems in Documentary
- FIL 6365: Documentary Pre-Production Planning
- FIL 6366: Documentary Procedures II
- FIL 6377: Documentary Field Production
- FIL 6378: Documentary Research Methods
- FIL 6380: Advanced Post-Production Techniques
- JOU 5007: History of Journalism
- JOU 5705: Issues and the Press
- JOU 6102: Reporting Workshop
- JOU 6114: Journalist Bootcamp
- JOU 6309: Seminar in Journalism as Literature
- JOU 6344: Journalist Toolkit 1
- JOU 6349: Journalist Toolkit 2
- JOU 6502: Newsroom Management
- MMC 5005: Mass Communication History
- MMC 5006: Introduction to Multimedia Communication
- MMC 5015: Electronic Publishing

- MMC 5206: Advanced Law of Mass Communication
- MMC 5277: Web Design Principles
- MMC 5306: International Communication
- MMC 5315: Survey of Foreign Correspondence
- MMC 5427: Research Methods in Digital Communication
- MMC 5636: Introduction to Social Media
- MMC 5708: Foundations of Intercultural Communication
- MMC 6202: Legal Problems of Mass Communication
- MMC 6278: Advanced Web Topics II
- MMC 6307: Seminar in International Communication
- MMC 6400: Mass Communication Theory
- MMC 6402: Seminar in Mass Communication Theory
- MMC 6405: Seminar in Mass Communication and Public Opinion
- MMC 6409: Science/Health Communication
- MMC 6417: Seminar in Mass Media and Health
- MMC 6421: Research Methods in Mass Communication
- MMC 6423: Content-Analysis Methods
- MMC 6426: Seminar in Qualitative Research
- MMC 6428: Collaborative Communication Research
- MMC 6429: News and Numbers
- MMC 6560: Seminar in History of Mass Communication
- MMC 6612: New Media and a Democratic Society
- MMC 6615: Race, Class, Gender, and Media
- MMC 6618: Survey of Political Communication
- MMC 6619: Seminar in Political Advertising
- MMC 6660: Mass Communication and Society
- MMC 6665: Seminar in First Amendment Theory
- MMC 6666: Seminar in Research in Mass Communication Law
- MMC 6667: Seminar in Advanced Topics in Mass Communication Law
- MMC 6668: Seminar in Public Policy Toward Mass Media
- MMC 6706: Covering the Arts
- MMC 6725: Social Media and Society
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- MMC 6936: Special Topics in Mass Communication
- MMC 6949: Professional Internship
- MMC 6951: Masters Project Seminar
- MMC 6971: Research for Master's Thesis
- MMC 6973: Project in Lieu of Thesis
- MMC 7979: Advanced Research
- MMC 7980: Research for Doctoral Dissertation
- PUR 5507: Persuasion Theory and Research
- PUR 6005: Theories of Public Relations
- PUR 6006: Public Relations Foundations
- PUR 6403: Crisis and Risk Management
- PUR 6416: Public Relations and Fund Raising
- PUR 6446: Public Relations and Philanthropy
- PUR 6506: Public Relations Research
- PUR 6607: Public Relations Management
- PUR 6608: International Public Relations
- PUR 6934: Problems in Public Relations
- RTV 5702: Telecommunication Regulation
- RTV 6105: Writing for Electronic Media
- RTV 6309: Advanced TV Reporting
- RTV 6508: Audience Analysis
- RTV 6801: Telecommunication Management
- RTV 6807: Telecommunication Outlet Systems and Practices
- RTV 6973: Project in Lieu of Thesis
- VIC 5315: Corporate and Brand Identity on the Web
- VIC 5325: Digital Imagery in Web Design
- VIC 5326: Digital Media Layout and Design
- VIC 6316: Brand Management

Mass Communication

College

[College of Journalism and Communications](#)

Mass Communication Program Information

Ph.D. in Mass Communication

The Ph.D. degree is a research degree. The Ph.D. program is designed to help develop knowledge, attitudes, and skills so graduates can make important contributions to understanding mass communication. Faculty members help students lay the foundation for a lifetime of significant, creative work.

The doctoral program prepares students for a variety of opportunities in mass communication. Graduates are expected to teach at colleges and universities; conduct research for organizations in advertising, journalism, public relations, telecommunication, and other mass communication fields; do consulting and conduct research and contribute to policy in government and private organizations. Doctoral students in the College of Journalism and Communications gain valuable experience in both teaching and research. Assistantships help prepare students for academic and other research positions. Students in the program have consistently been among the nation's leaders in winning top-paper awards at national and regional scholarly meetings.

Master of Arts in Mass Communication (M.A.M.C.)

There are several specializations available for the Master of Arts in Mass Communication:

The **Journalism specialization** program in the UF College of Journalism and Communications combines study of the academic literature on the societal role and effects of mass communication in general and journalism in particular with courses designed to improve students' practice of the journalism craft. The Journalism specialization at the master's level is designed for students interested in all areas of non-broadcast journalism (i.e. newspapers, magazines and online publishing). Those who have an educational and/or professional background in journalism can enhance their understanding of the role of journalism in society, as well as improving reporting and writing skills. However, the program is also well-suited for students with a long-term interest in college-level journalism education, who can pursue the master's degree as preparation for entry into a doctoral program. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-journalism>.

The **Public Relations specialization** at the master's level is a research-based program designed to prepare students for careers and advancement in the industry or for entering doctoral studies. Students learn the conceptual foundations of public relations and develop professional and research competency within the duration of the program. Courses in the public relations specialization focus on conceptual foundations of public relations, including mass communication and society; professional and managerial skills mastery; and research expertise. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/master-of-public-relations>.

The **Telecommunication specialization** program in the UF College of Journalism and Communications combines courses in Mass Communication, Telecommunication, and other areas relevant to the student's goals. There is a thesis track, appropriate for students who will later seek the Ph.D. or who wish to learn the skills and knowledge associated with thesis research or project in lieu of thesis. The Telecommunication track is designed for students with the following interests:

- Operation or management of telecommunication outlets (broadcast stations, cable systems, program distributors, etc.) and emerging media
- Telecommunication regulation and policy
- Audience research
- Preparation for an advanced degree

For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-telecommunication>.

The **International/Intercultural Communication specialization**: The field of international communication encompasses the study of international journalism (both print and broadcast) and international business and marketing communication. The field of intercultural communication focuses on the interactions between people of different cultures, values and histories. Through their study, students learn to appreciate and engage diverse cultures and media, gaining the knowledge and skills you need to thrive in today's challenging global community. The international/intercultural track in mass communication culminates with the student writing a thesis on an international/intercultural topic in communication, applying one or more of the methods used in communication research. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-internationalintercultural-communication-specialization>.

The **Science and Health Communications specialization** program is designed to teach scientists and health specialists to communicate effectively via media, and to teach mass media specialists the background science to translate the language of science and health into meaningful and understandable stories for their audiences. These goals are achieved through theoretical writing and applied courses. At least two aspects of the program make it unique among science communication programs nationwide. First, other existing science communication programs in the U.S. focus on training journalists. UF's program is open to journalists who want to specialize in covering science and health, offers training for people planning to work as public affairs or public information officers for science and health organizations, for other communication specialists, and for scientists who need to be able to communicate with the public about their work. Second, the program focuses on training students to understand and communicate effectively about science and health policy. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-sciencehealth-communication>.

For more help with any of our graduate degree programs, please refer to our website: <http://www.jou.ufl.edu/academics>.

Degrees Offered with a Major in Mass Communication

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Arts in Mass Communication

College of Journalism and Communications Courses

- ADV 5005: Advertising Planning
- ADV 6006: Theories of Advertising
- ADV 6305: Advanced Media Planning
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- FIL 6377: Documentary Field Production
- FIL 6378: Documentary Research Methods
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- JOU 5705: Issues and the Press
- JOU 6102: Reporting Workshop
- JOU 6114: Journalist Bootcamp
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- JOU 6344: Journalist Toolkit 1
- JOU 6349: Journalist Toolkit 2
- JOU 6502: Newsroom Management
- MMC 5005: Mass Communication History
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- MMC 6660: Mass Communication and Society
- MMC 6665: Seminar in First Amendment Theory
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- MMC 6971: Research for Master's Thesis
- MMC 6973: Project in Lieu of Thesis
- MMC 7979: Advanced Research
- MMC 7980: Research for Doctoral Dissertation
- PUR 5507: Persuasion Theory and Research

- PUR 6005: Theories of Public Relations
- PUR 6006: Public Relations Foundations
- PUR 6403: Crisis and Risk Management
- PUR 6416: Public Relations and Fund Raising
- PUR 6446: Public Relations and Philanthropy
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- RTV 6973: Project in Lieu of Thesis
- VIC 5315: Corporate and Brand Identity on the Web
- VIC 5325: Digital Imagery in Web Design
- VIC 5326: Digital Media Layout and Design
- VIC 6316: Brand Management

Programs within the College of Nursing

College of Nursing

Dean: A.M. McDaniel

Complete faculty listings: [Follow this link.](#)

The nationally ranked College of Nursing offers the graduate degrees of Master of Science in Nursing, Doctor of Nursing Practice, and Doctor of Philosophy in nursing sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Students may request special review by the College of Nursing Admissions Committee if they believe they are strong candidates for graduate study but do not fully meet all criteria.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal. Additional offerings include

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader

For additional information about the Nursing programs, visit <http://www.nursing.ufl.edu> or call (352) 273-6331.

[College of Nursing Courses](#)

Other

Nursing

College

[College of Nursing](#)

Master of Science in Nursing (MSN)

The master's degree prepares nurses for advanced practice, clinical nurse specialist, or to be a clinical nurse leader. The graduate nursing core includes nursing theory, research, statistics, health policy, ethics, finance, and health promotion. The advanced practice core includes specific theory and clinical courses with relevant clinical experiences.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal.

Additional offerings include:

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader
- Graduates are eligible for Florida licensure and national certification.

To be considered for the M.S.N. program, students must meet the following minimum requirements:

- Bachelor of Science in Nursing degree with an upper-division grade point average of 3.0 or higher from a CCNE or NLN AC accredited program
- A score of 500 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination (GRE) General Test. In the new version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section. Analytical writing section is optional.
- Eligibility for licensure to practice as a registered nurse in the state of Florida

For application materials:

http://www.nursing.ufl.edu/prospective/prospective_msn_application_process.shtml

Degrees

Master of Science in Nursing

without a concentration

College of Nursing Courses

- NGR 5934: Cultural Influences on Health Care
- NGR 6002C: Advanced Health Assessment
- NGR 6006: Principles of Clinical Outcomes Management
- NGR 6054C: Advanced Neonatal Health Assessment and Diagnostic Reasoning
- NGR 6052C: Adult Nursing: Diagnostics and Procedures
- NGR 6101: Theory and Research for Nursing
- NGR 6140: Physiology and Pathophysiology for Advanced Nursing Practice
- NGR 6172: Pharmacotherapeutics for Advanced Practice Nursing
- NGR 6892: Health Care Policy and Organizational Delivery
- NGR 6230C: Acute Care Nurse Practitioner: Diagnostics and Procedures for the Critically Ill
- NGR 6240: Primary Care for Adults
- NGR 6241: Adult Nursing: Common Health Problems
- NGR 6241L: Adult Nurse Practitioner: Common Health Problems Laboratory
- NGR 6243: Acute Care Nurse Practitioner: Critically Ill Adult
- NGR 6243L: Acute Care Nurse Practitioner: Critically Ill Adult Laboratory
- NGR 6244: Adult Nursing: Chronic Health Problems
- NGR 6244L: Adult Nurse Practitioner: Chronic Health Problems Laboratory
- NGR 6247: Complex High Prevalence Illnesses Of Adults
- NGR 6247L: Complex High Prevalence Illnesses Of Adults
- NGR 6248: Adult Acute Care Nurse Practitioner 3
- NGR 6248L: Adult Acute Care Nurse Practitioner 3
- NGR 6255: Advanced Nursing Care of Older Adult
- NGR 6301: Advanced Child Health Nursing I
- NGR 6301L: Advanced Child Health Nursing I
- NGR 6302: Advanced Child Health Nursing II
- NGR 6302L: Advanced Child Health Nursing II
- NGR 6307: Advanced Child Health Nursing III
- NGR 6307L: Advanced Child Health Nursing III
- NGR 6320C: Neonatal Care I
- NGR 6321C: Neonatal Care II
- NGR 6323C: Neonatal Care III
- NGR 6350: Family Nurse Practitioner: Women, Adolescents, And Children
- NGR 6350L: Family Nurse Practitioner: Women, Adolescents, And Children
- NGR 6360C: Nurse-Midwifery Care I
- NGR 6361C: Nurse-Midwifery Care II
- NGR 6364: Seminar: The Nurse Midwife
- NGR 6371: Pharmacotherapeutics for Advanced Neonatal Nursing
- NGR 6372C: Advanced Pediatric Procedures and Diagnostics
- NGR 6500C: Individual and Family Therapy for Psychiatric-Mental Health Nursing
- NGR 6501C: Group Therapy and Community Interventions for Psychiatric-Mental Health Nursing
- NGR 6538: Psychopharmacology for Psychiatric Nursing
- NGR 6612: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
- NGR 6612L: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
- NGR 6636: Wellness Promotion and Disease Prevention
- NGR 6726: Management of the Care Environment II
- NGR 6727: Management of the Care Environment I
- NGR 6740: Role Transition: Issues in Advanced Practice Nursing
- NGR 6770: Leadership/Role of Clinical Nurse Leader
- NGR 6771: Clinical Nurse Leader Role Seminar
- NGR 6773: Clinical Nurse Leader Residency/Internship
- NGR 6815: Foundations of Qualitative Research in Nursing
- NGR 6840: Applied Statistical Analysis I
- NGR 6845: Applied Statistical Analysis II
- NGR 6850: Research Methods and Utilization for Nursing
- NGR 6905: Individual Study
- NGR 6941: Practicum in Nursing
- NGR 6930: Special Topics in Nursing
- NGR 6944: Individual Clinical Practice
- NGR 6970: Research for Master's Project
- NGR 6971: Research for Master's Thesis
- NGR 7176: Advanced Topics in Pharmacotherapeutics in Nursing
- NGR 7816: Quantitative Research Design and Measurement in Nursing

- NGR 7003: Advanced Diagnostic Reasoning
- NGR 7115: Philosophy of Nursing Science
- NGR 7124: Theory Development in Nursing
- NGR 7700: Leadership and Role Development in Advanced Nursing Practice
- NGR 7709: Nurse Scientist and Scholar I
- NGR 7814: Field Methods for Health Related Research
- NGR 7827: Outcomes Research and Evaluation
- NGR 7831: Quality Indicators in Nursing Systems
- NGR 7835: Nurse Scientist and Scholar II
- NGR 7871: Nursing Informatics and Data
- NGR 7882: Ethical Theories and Rational Decision Making in Health
- NGR 7891: Health Policy and Finance in Advanced Nursing Practice
- NGR 7940L: Residency in Advanced Nursing Practice
- NGR 7970L: Advanced Nursing Project
- NGR 7979: Advanced Research
- NGR 7980: Research for Doctoral Dissertation

Nursing Sciences

College

[College of Nursing](#)

Nursing Sciences Program

Chairs: S. Schaffer, M.J. Snider, and J. Stechmiller

Graduate Coordinator: J. Ballantyne

Complete faculty listing by department: [Follow this link.](#)

For more information about the Master of Science in Nursing and the Doctor of Nursing Practice, please visit [Graduate Degrees](#) or <http://www.nursing.ufl.edu>.

The College's Ph.D. program prepares scientists, scholars, advanced practitioners, and leaders in nursing. Comprehensive research and practice preparation is achieved by pairing students with faculty. Students have access to an array of faculty members for interdisciplinary study, clinical practice, and research. Individually directed dissertation research is a major aspect of the Ph.D. program. Research in the College includes aging and health, women's health, bio-behavioral interventions, and health policy.

Progression in the program depends on the student's ability to meet academic standards and clinical competencies as defined by College policy.

To be considered for admission to the Ph.D. program, students must meet the following minimum requirements:

- A BSN or master's degree in nursing from a CCNE/NLN AC accredited program.
- A master's program GPA of 3.5 on a 4.0 scale and a score of 500 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination (GRE) General Test. In the current version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section.

OR

- A master's program GPA of 3.2 on a 4.0 scale and a score of 600 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination General Test. In the current version of the GRE a score a minimum score of 160 in the verbal section and 148 in the quantitative section.
- Completion of the GRE analytical section
- Eligibility for licensure to practice as a registered nurse in the state of Florida

A personal interview is preferred to establish a Graduate Faculty mentor who will work with the student to individualize the academic program and to structure the student's research or practice focus.

You may also call 352-273-6331 for more information.

Degrees

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

College of Nursing Courses

- NGR 5934: Cultural Influences on Health Care
- NGR 6002C: Advanced Health Assessment
- NGR 6006: Principles of Clinical Outcomes Management
- NGR 6054C: Advanced Neonatal Health Assessment and Diagnostic Reasoning
- NGR 6052C: Adult Nursing: Diagnostics and Procedures
- NGR 6101: Theory and Research for Nursing
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- NGR 6501C: Group Therapy and Community Interventions for Psychiatric-Mental Health Nursing
- NGR 6538: Psychopharmacology for Psychiatric Nursing
- NGR 6612: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
- NGR 6612L: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
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- NGR 6941: Practicum in Nursing
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- NGR 7871: Nursing Informatics and Data
- NGR 7882: Ethical Theories and Rational Decision Making in Health
- NGR 7891: Health Policy and Finance in Advanced Nursing Practice
- NGR 7940L: Residency in Advanced Nursing Practice
- NGR 7970L: Advanced Nursing Project
- NGR 7979: Advanced Research

- NGR 7980: Research for Doctoral Dissertation

Spring 2012 Critical Dates

Spring 2012

2011

December 7, Wednesday, 5:00 p.m

Deadline if requesting transfer of credit (for spring degree candidates).

2012

January 6, Friday, 5:00 p.m.

Registration.

January 9, Monday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed).

January 13, Friday, 11:59 p.m.

Drop/add ends

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability.

January 16, Monday, Martin Luther King Jr. Day

No classes.

January 20, Friday, 3:30 p.m.

Fee payment deadline.

Residency reclassification deadline for receiving requests and all documents.

January 27, Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme.

February 3, Friday, 5:00 p.m.

Degree application deadline for degree award this term:

graduateschool.ufl.edu/files/graduation-checklist.pdf
<http://www.isis.ufl.edu/>

Deadline to withdraw with 25% refund (W symbol assigned).

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

February 20, Monday, 5:00 p.m.

Last day to submit dissertation for review by Graduate School Editorial Office:

February 28, Tuesday

Midpoint of term.

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants.

Late degree application deadline for degree award this term.

March 3-10, Saturday-Saturday, Spring Break

No classes.

March 19, Monday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office.
graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students.

April 13, Friday, 5:00 p.m.

Last day to withdraw (all courses) without failing grades.
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students.

Deadline for theses and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term.

April 23, Monday, 5:00 p.m.

Deadline for theses and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term.
No exceptions can be granted.

April 25, Wednesday

Classes end.

April 25, Wednesday, 5:00 p.m.

Deadline if requesting transfer of credit (for summer degree candidates).

April 26-27, Thursday-Friday

Examination reading days (no classes).

April 28, Saturday, April 30-May 4, Monday-Friday

Final examinations.

May 3-6, Thursday-Sunday

Commencement+

May 4, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript.

May 7, Monday, 12:00 noon

Final term grades are due.

May 8, Tuesday

Degree certification.

May 9, Wednesday

Unofficial transcripts with grades and remarks available 8:00 a.m. via ISIS.

NOTES: All dates and deadlines are subject to change and will be updated accordingly.
Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized.
Please do not anticipate exact dates and times until notification is received.

[Fall 2011 Calendar](#)

[Summer 2012 Calendar](#)

[Expanded Academic Calendar 2011-2012](#)

Spring 2013 Academic Calendar

2012

December 5, Wednesday, 5:00 p.m

Deadline if requesting transfer of credit (for spring degree candidates)

2013

January 4, Friday, 5:00 p.m.

Registration

January 7, Monday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed).

January 11, Friday, 11:59 p.m.

Drop/add ends

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability

January 18, Friday, 3:30 p.m.

Fee payment deadline

Residency reclassification deadline for receiving requests and all documents

January 21, Monday, Martin Luther King Jr. Day

No classes

January 25, Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

February 1, Friday, 5:00 p.m.

Degree application deadline for degree award this term:

graduateschool.ufl.edu/files/graduation-checklist.pdf

<http://www.isis.ufl.edu/>

Deadline to withdraw with 25% refund (W symbol assigned).

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

February 15, Friday, 5:00 p.m.

Last day to submit dissertation for review by Graduate School Editorial Office:

February 26, Tuesday

Midpoint of term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

Late degree application deadline for degree award this term

March 2-9, Saturday-Saturday, Spring Break

No classes

March 15, Friday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office
graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students

April 15, Monday, 5:00 p.m.

Last day to withdraw (all courses) without failing grades.
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for theses and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term

April 22, Monday, 5:00 p.m.

Deadline for theses and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term
No exceptions can be granted.

April 24, Wednesday

Classes end.

April 24, Wednesday, 5:00 p.m.

Deadline if requesting transfer of credit (for summer degree candidates)

April 25-26, Thursday-Friday

Examination reading days (no classes)

April 27, Saturday; April 29-May 3, Monday-Friday

Final examinations

May 3, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript

May 3-5, Friday-Sunday

Commencement+

May 6, Monday, 12:00 noon

Final term grades are due.

May 7, Tuesday

Degree certification

May 8, Wednesday

Unofficial transcripts with grades and remarks available 8:00 a.m. via ISIS.

NOTES: All dates and deadlines are subject to change and will be updated accordingly.
Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized.
Please do not anticipate exact dates and times until notification is received.

Spring 2014 Calendar

December 2013

December 4, Wednesday, 5:00 p.m.

Deadline for requesting transfer of credit (for spring degree candidates)

January 2014

January 3, Friday, 5:00 p.m.

Registration deadline

January 6, Monday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed, after 5:00 p.m. on 1/3/14).

January 10, Friday, 11:59 p.m.

Drop/add ends

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability

January 17, Friday, 3:30 p.m.

Fee payment deadline

Residency reclassification deadline for receiving requests and all documents

January 20, Monday, Martin Luther King Jr. Day

No classes

January 24 Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

January 31, Friday, 5:00 p.m.

Degree application deadline for degree award this term
graduateschool.ufl.edu/files/graduation-checklist.pdf
<http://www.isis.ufl.edu/>

Deadline to withdraw with 25% refund (W symbol assigned)
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

February 2014

February 10, Monday, 5:00 p.m.

Last day to submit Transmittal Letter and dissertation for review by Graduate School Editorial Office
graduateschool.ufl.edu/files/checklist-dissertation.pdf

February 14, Friday

Midpoint of term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

Late degree application deadline for degree award this term

March 2014

March 1-8, Saturday-Saturday, Spring Break

No classes

March 10, Monday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office
graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students

April 2014

April 9, Wednesday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for ETD Signature Pages to be posted to GIMS for thesis and dissertation students

Deadline for thesis and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term
No exceptions can be granted.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>
www.graduateschool.ufl.edu/graduation/checklists

April 11, Friday, 5:00 p.m.

Last day to withdraw (all courses) via ISIS without failing grades
<http://www.registrar.ufl.edu/currents/withdraw.html>

April 22, Tuesday, 5:00 p.m.

Deadline for thesis and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term
No exceptions can be granted.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

April 23, Wednesday, 5:00 p.m.

Deadline for requesting transfer of credit (for summer degree candidates)

April 23, Wednesday

Classes end.

April 24-25, Thursday-Friday

Examination reading days (no classes)

April 25, Friday

Doctoral Degree Commencement Ceremony+

April 26, Saturday; April 28-May 2, Monday-Friday

Final examinations

May 2014

May 2, Friday

Last day to drop a course and receive W on transcript via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades via College petition to the Registrar, Room 222 Criser

May 2-4, Friday-Sunday

Commencement Ceremonies (Non-doctoral)+

May 5, Monday, 12:00 noon

Final term grades are due.

May 6, Tuesday

Degree certification

May 7, Wednesday

Unofficial transcripts with grades and remarks available via ISIS

NOTES: All dates and deadlines are subject to change and will be updated accordingly.

Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized.
Please do not anticipate exact dates and times until notification is received.

Spring 2015 Calendar

December 2014

December 10, Wednesday, 5:00 p.m.

Deadline for requesting transfer of credit (for spring degree candidates)

January 2015

January 5, Monday, 5:00 p.m.

Registration deadline

Last day for thesis and dissertation students to clear prior to the spring semester with the Graduate School Editorial Office

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

January 6, Tuesday

Classes start.

Drop/add starts.

Late registration starts (late fee assessed, after 5:00 p.m. on 1/5/14).

January 12, Monday, 11:59 p.m.

Drop/add ends

Late Registration ends (late fee assessed).

Deadline to withdraw with no fee liability

January 16, Friday, 3:30 p.m.

Fee payment deadline

Residency reclassification deadline for receiving requests and all documents

January 19, Monday, Martin Luther King Jr. Day

No classes

January 23, Friday, 5:00 p.m.

Deadline for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

January 30, Friday, 5:00 p.m.

Degree application deadline for degree award this term
graduateschool.ufl.edu/files/graduation-checklist.pdf
<http://www.isis.ufl.edu/>

Deadline to withdraw with 25% refund (W symbol assigned)
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

February 2015**February 11, Wednesday, 5:00 p.m.**

Last day to submit Transmittal Letter and dissertation for review by Graduate School Editorial Office
graduateschool.ufl.edu/files/checklist-dissertation.pdf

February 13, Friday

Midpoint of term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

Late degree application deadline for degree award this term

February 28-March 7, Saturday-Saturday, Spring Break

No classes

March 2015**March 11, Wednesday, 5:00 p.m.**

Last day to submit successfully defended thesis for review by Graduate School Editorial Office
graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students

April 2015**April 8, Wednesday, 5:00 p.m.**

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for ETD Signature Pages to be posted to GIMS for thesis and dissertation students

Deadline for thesis and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term
No exceptions can be granted.
<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>
www.graduateschool.ufl.edu/graduation/checklists

April 10, Friday, 5:00 p.m.

Last day to withdraw (all courses) via ISIS without failing grades
<http://www.registrar.ufl.edu/currents/withdraw.html>

April 22, Wednesday

Classes end.

April 22, Wednesday, 5:00 p.m.

Deadline for thesis and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term. No exceptions can be granted.

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

Deadline for requesting transfer of credit (for summer degree candidates)

April 23-24, Thursday-Friday

Examination reading days (no classes)

April 24, Friday

Doctoral Degree Commencement Ceremony+

April 25, Saturday; April 27-May 1, Monday-Friday

Final examinations

May 2015

May 1, Friday

Last day to drop a course and receive W on transcript via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades via College petition to the Registrar, Room 222 Criser

May 1-3, Friday-Sunday

Commencement Ceremonies (Non-doctoral)+

May 4, Monday, 12:00 noon

Final term grades are due.

May 5, Tuesday

Degree certification

May 6, Wednesday

Unofficial transcripts with grades and remarks available via ISIS

NOTES: All dates and deadlines are subject to change and will be updated accordingly.

Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

Summer 2012 Critical Dates

Summer 2012

All Summer 2012 graduate-level degrees will be awarded at the end of Summer B/C (August 2012).

Applicants will select Summer B/C 2012 on the degree application menu in ISIS.

The Summer 2012 degree application will be available through ISIS in mid-March 2012.

Students enrolled only in Summer A courses, still apply for the Summer B/C term, since graduate-level degrees are only awarded at the end of the B/C term. No graduate-level degrees are awarded at the end of Summer A (June). No late degree applications will be approved after the B/C deadline (July 5).

[graduateschool.ufl.edu/files/graduation-checklist.pdf](http://www.graduateschool.ufl.edu/files/graduation-checklist.pdf)

<http://www.isis.ufl.edu/>

April 25, Wednesday, 5:00 p.m.

Deadline if requesting transfer of credit (for summer degree candidates).

May 11, Friday, 5:00 p.m.

Summer A & C registration.

May 14, Monday

Summer A & C classes start.

Summer A & C drop/add starts.

Summer A & C late registration starts (late fee assessed).

May 15, Tuesday, 11:59 p.m.

Summer A & C late registration ends (late fee assessed).

Summer A & C drop/add ends.

Summer A & C deadline to withdraw with no fee liability.

May 23, Wednesday

Summer A deadline to withdraw with 25% refund (W symbol assigned):

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

May 23, Wednesday, 5:00 p.m.

Deadline for Summer A courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme.

May 25, Friday, 3:30 p.m.

Summer A & C fee payment deadline.

Summer A & C residency reclassification deadline for receiving the request and all documents.

May 28, Monday, Memorial Day observed

No classes.

June 1, Friday, 5:00 pm

Summer C deadline to withdraw with 25% refund (W symbol assigned):

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Deadline for Summer C courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme.

June 15, Friday

Last day to withdraw (all courses) without failing grades for Summer A term:

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

June 22, Friday

Summer A classes end.

Summer A final examinations during regular class periods.

June 22, Friday, 5:00 p.m.

Last day to drop a course for Summer A and receive W on transcript.

Last day to submit dissertation for review by Graduate School Editorial Office:

graduateschool.ufl.edu/files/checklist-dissertation.pdf

June 25, Monday, 12:00 p.m.

Summer A final term grades are due.

June 25-29, Monday-Friday, Summer Break

No classes.

June 27, Wednesday

Unofficial transcripts with grades available 8:00 a.m. via ISIS.

June 29, Friday, 5:00 p.m.

Summer B Registration.

July 2, Monday

Summer B classes start.

Summer B drop/add starts.

Summer B late registration starts (late fee assessed).

July 3, Tuesday, 11:59 p.m.

Summer B drop/add ends.

Summer B late registration ends (late fee assessed).

Summer B deadline to withdraw with no fee liability.

July 4, Wednesday, Independence Day observed

No classes.

July 5, Thursday

Summer B/C Degree application deadline —no exceptions will be granted after this date.

<http://graduateschool.ufl.edu/files/graduation-checklist.pdf>

<http://www.isis.ufl.edu/>

Midpoint of Summer term.

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants.

July 6, Friday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office.

graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students.

July 11, Wednesday, 5:00 p.m.

Summer B deadline to withdraw with 25% refund (W symbol assigned):

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Deadline for Summer B courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme.

July 13, Friday, 3:30 p.m.

Summer B fee payment deadline.

Summer B residency reclassification deadline for receiving the request and all documents.

July 26, Thursday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students.

Deadline for theses and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term.

graduateschool.ufl.edu/files/editorial-deadlines.pdf

August 3, Friday

Last day to withdraw (all courses) without failing grades for Summer B or C term:
<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Criser Hall

Deadline for theses and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term.
 No exceptions can be granted.
graduateschool.ufl.edu/files/editorial-deadlines.pdf

August 10, Friday

Summer B and C classes end.

Final examinations are during regular class periods.

August 10, Friday, 5:00 p.m.

Deadline if requesting transfer of credit (for fall degree candidates).

Last day to drop a course for Summer B and C terms and receive W on transcript.

August 11, Saturday

Commencement+

August 13, Monday, 12:00 noon

Summer B and C final term grades are due.

August 14, Tuesday

Degree certification.

August 15, Wednesday

Unofficial transcripts with grades and remarks available 8:00 a.m. via ISIS.

NOTES: All dates and deadlines are subject to change and will be updated accordingly.
 Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

[Fall 2011 Calendar](#)
[Spring 2012 Calendar](#)

[Expanded Academic Calendar 2011-2012](#)

Summer 2013 Academic Calendar

All Summer 2013 graduate-level degrees will be awarded at the end of Summer B/C (August 2013).
 Applicants will select Summer B/C 2013 on the degree application menu in ISIS.
 The Summer 2013 degree application will be available through ISIS in mid-March 2013.

Students enrolled only in Summer A courses, still apply for the Summer B/C term, since graduate-level degrees are only awarded at the end of the B/C term. No graduate-level degrees are awarded at the end of Summer A (June). No late degree applications will be approved after the B/C deadline (July 3).

graduateschool.ufl.edu/files/graduation-checklist.pdf
<http://www.isis.ufl.edu/>

April 24, Wednesday, 5:00 p.m.

Deadline if requesting transfer of credit (for summer degree candidates).

May 10, Friday, 5:00 p.m.

Summer A & C registration.

May 13, Monday

Summer A & C classes start.

Summer A & C drop/add starts.

Summer A & C late registration starts (late fee assessed).

May 14, Tuesday, 11:59 p.m.

Summer A & C late registration ends (late fee assessed).

Summer A & C drop/add ends.

Summer A & C deadline to withdraw with no fee liability.

May 22, Wednesday

Summer A deadline to withdraw with 25% refund (W symbol assigned):

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

May 22, Wednesday, 5:00 p.m.

Deadline for Summer A courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme.

May 24, Friday, 3:30 p.m.

Summer A & C fee payment deadline.

Summer A & C residency reclassification deadline for receiving the request and all documents.

May 27, Monday, Memorial Day observed

No classes.

May 31, Friday, 5:00 pm

Summer C deadline to withdraw with 25% refund (W symbol assigned):

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Deadline for Summer C courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme.

June 14, Friday

Last day to withdraw (all courses) without failing grades for Summer A term:

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

June 21, Friday

Summer A classes end.

Summer A final examinations during regular class periods.

June 21, Friday, 5:00 p.m.

Last day to drop a course for Summer A and receive W on transcript.

Last day to submit dissertation for review by Graduate School Editorial Office:

graduateschool.ufl.edu/files/checklist-dissertation.pdf

June 24, Monday, 12:00 p.m.

Summer A final term grades are due.

June 24-28, Monday-Friday, Summer Break

No classes.

June 26, Wednesday

Unofficial transcripts with grades available 8:00 a.m. via ISIS.

June 28, Friday, 5:00 p.m.

Summer B Registration.

July 1, Monday

Summer B classes start.

Summer B drop/add starts.

Summer B late registration starts (late fee assessed).

July 2, Tuesday, 11:59 p.m.

Summer B drop/add ends.

Summer B late registration ends (late fee assessed).

Summer B deadline to withdraw with no fee liability.

July 3, Wednesday

Summer B/C Degree application deadline — no exceptions will be granted after this date.

<http://graduateschool.ufl.edu/files/graduation-checklist.pdf>

<http://www.isis.ufl.edu/>

Midpoint of Summer term.

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants.

July 4, Thursday, Independence Day observed

No classes.

July 8, Monday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office.

graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students.

July 10, Wednesday, 5:00 p.m.

Summer B deadline to withdraw with 25% refund (W symbol assigned):

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Deadline for Summer B courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme.

July 12, Friday, 3:30 p.m.

Summer B fee payment deadline.

Summer B residency reclassification deadline for receiving the request and all documents.

July 26, Friday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students.

Deadline for theses and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term.

graduateschool.ufl.edu/files/editorial-deadlines.pdf

August 2, Friday

Last day to withdraw (all courses) without failing grades for Summer B or C term:

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Criser Hall

Deadline for theses and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term.

No exceptions can be granted.

graduateschool.ufl.edu/files/editorial-deadlines.pdf

August 9, Friday

Summer B and C classes end.

Final examinations are during regular class periods.

August 9, Friday, 5:00 p.m.

Deadline if requesting transfer of credit (for fall degree candidates).

Last day to drop a course for Summer B and C terms and receive W on transcript.

August 10, Saturday

Commencement+

August 12, Monday, 12:00 noon

Summer B and C final term grades are due.

August 13, Tuesday

Degree certification.

August 14, Wednesday

Unofficial transcripts with grades and remarks available 8:00 a.m. via ISIS.

NOTES: All dates and deadlines are subject to change and will be updated accordingly.

Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

Summer 2014 Calendar

All Summer 2014 graduate-level degrees will be awarded at the end of Summer B/C (August 2014).

Applicants will select Summer B/C 2014 on the degree application menu in ISIS.

The Summer 2014 degree application will be available via ISIS in mid-March 2014.

Students enrolled only in Summer A courses, still apply for the Summer B/C term, since graduate-level degrees are only awarded at the end of the B/C term. No graduate-level degrees are awarded at the end of Summer A (June). No late degree applications will be approved after the B/C deadline (July 2).

graduateschool.ufl.edu/files/graduation-checklist.pdf

<http://www.isis.ufl.edu/>

April 2014

April 23, Wednesday, 5:00 p.m.

Deadline for requesting transfer of credit (for summer degree candidates)

May 2014

May 9, Friday, 5:00 p.m.

Summer A & C registration

May 12, Monday

Summer A & C classes start.

Summer A & C drop/add starts.

Summer A & C late registration starts (late fee assessed).

May 13, Tuesday, 11:59 p.m.

Summer A & C late registration ends (late fee assessed).

Summer A & C drop/add ends.

Summer A & C deadline to withdraw with no fee liability

May 21, Wednesday, 5:00 p.m.

Summer A deadline to withdraw with 25% refund (W symbol assigned)

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

Deadline for Summer A courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

May 23, Friday, 3:30 p.m.

Summer A & C fee payment deadline

Summer A & C residency reclassification deadline for receiving the request and all documents

May 26, Monday, Memorial Day observed

No classes

May 30, Friday, 5:00 pm

Summer C deadline to withdraw with 25% refund (W symbol assigned)

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

Deadline for Summer C courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

June 2014**June 13, Friday, 5:00 p.m.**

Last day to withdraw (all courses) via ISIS for Summer A without failing grades

<http://www.registrar.ufl.edu/currents/withdraw.html>

June 16, Monday, 5:00 p.m.

Last day to submit Transmittal Letters and dissertation for review by Graduate School Editorial Office

graduateschool.ufl.edu/files/checklist-dissertation.pdf

June 20, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript for Summer A term via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades for Summer A term via College petition to the Registrar, Room 222 Criser

June 20, Friday

Summer A classes end.

Summer A final examinations during regular class periods

June 23, Monday, 12:00 p.m.

Summer A final term grades are due.

June 23-27, Monday-Friday, Summer Break

No classes

June 27, Friday, 5:00 p.m.

Summer B Registration

June 30, Monday

Summer B classes start.

Summer B drop/add starts.

Summer B late registration starts (late fee assessed, after 5:00 p.m. on 6/27/14).

July 2014

July 1, Tuesday, 11:59 p.m.

Summer B drop/add ends.

Summer B late registration ends (late fee assessed).

Summer B deadline to withdraw with no fee liability

July 2, Wednesday

Summer B/C Degree application deadline—no exceptions will be granted after this date.

<http://graduateschool.ufl.edu/files/graduation-checklist.pdf>

<http://www.isis.ufl.edu/>

Midpoint of Summer term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

July 4, Friday, Independence Day

No classes

July 8, Tuesday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office

graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students.

July 9, Wednesday, 5:00 p.m.

Summer B deadline to withdraw with 25% refund (W symbol assigned):

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Deadline for Summer B courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

July 11, Friday, 3:30 p.m.

Summer B fee payment deadline

Summer B residency reclassification deadline for receiving the request and all documents

July 25, Friday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for ETD Signature Pages to be posted to GIMS for thesis and dissertation students

Deadline for thesis and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term
No exceptions can be granted.

graduateschool.ufl.edu/files/editorial-deadlines.pdf

www.graduateschool.ufl.edu/graduation/checklists

August 2014

August 1, Friday, 5:00 p.m.

Last day to withdraw (all courses) for Summer B or Summer C via ISIS without failing grades

<http://www.registrar.ufl.edu/currents/withdraw.html>

August 5, Tuesday, 5:00 p.m.

Deadline for thesis and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term
No exceptions can be granted.

graduateschool.ufl.edu/files/editorial-deadlines.pdf

August 8, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript for Summer B or Summer C via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades for Summer B or Summer C via College petition to the Registrar, Room 222 Criser

Deadline for requesting transfer of credit (for fall degree candidates)

August 8, Friday

Summer B and C classes end.

Final examinations are during regular class periods.

August 9, Saturday

Commencement+

August 11, Monday, 12:00 noon

Summer B and C final term grades are due.

August 12, Tuesday

Degree certification

August 13, Wednesday

Unofficial transcripts with grades and remarks are available via ISIS.

NOTES: All dates and deadlines are subject to change and will be updated accordingly.

Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

Summer 2015 Calendar

All Summer 2015 graduate-level degrees will be awarded at the end of Summer B/C (August 2015).

Applicants will select Summer B/C 2015 on the degree application menu in ISIS.

The Summer 2015 degree application will be available via ISIS in mid-March 2015.

Students enrolled only in Summer A courses, still apply for the Summer B/C term, since graduate-level degrees are only awarded at the end of the B/C term. No graduate-level degrees are awarded at the end of Summer A (June). No late degree applications will be approved after the B/C deadline (July 1).

graduateschool.ufl.edu/files/graduation-checklist.pdf

<http://www.isis.ufl.edu/>

April 2015

April 22, Wednesday, 5:00 p.m.

Deadline for requesting transfer of credit (for summer degree candidates)

May 2015

May 8, Friday, 5:00 p.m.

Summer A & C registration

Last day for thesis and dissertation students to clear prior to the summer semester with the Graduate School Editorial Office

<http://www.graduateschool.ufl.edu/files/editorial-deadlines.pdf>

May 11, Monday

Summer A & C classes start.

Summer A & C drop/add starts.

Summer A & C late registration starts (late fee assessed).

May 12, Tuesday, 11:59 p.m.

Summer A & C late registration ends (late fee assessed).

Summer A & C drop/add ends.

Summer A & C deadline to withdraw with no fee liability

May 20, Wednesday, 5:00 p.m.

Summer A deadline to withdraw with 25% refund (W symbol assigned)

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

Deadline for Summer A courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

May 22, Friday, 3:30 p.m.

Summer A & C fee payment deadline

Summer A & C residency reclassification deadline for receiving the request and all documents

May 25, Monday, Memorial Day observed

No classes

May 29, Friday, 5:00 pm

Summer C deadline to withdraw with 25% refund (W symbol assigned)

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf>

Deadline for Summer C courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

June 2015**June 12, Friday, 5:00 p.m.**

Last day to withdraw (all courses) via ISIS for Summer A without failing grades

<http://www.registrar.ufl.edu/currents/withdraw.html>

June 15, Monday, 5:00 p.m.

Last day to submit Transmittal Letters and dissertation for initial review by Graduate School Editorial Office

graduateschool.ufl.edu/files/checklist-dissertation.pdf

June 19, Friday

Summer A classes end.

Summer A final examinations during regular class periods

June 19, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript for Summer A term via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades for Summer A term via College petition to the Registrar, Room 222 Criser

June 22, Monday, 12:00 p.m.

Summer A final term grades are due.

June 22-26, Monday-Friday, Summer Break

No classes

June 26, Friday, 5:00 p.m.

Summer B Registration

June 29, Monday

Summer B classes start.

Summer B drop/add starts.

Summer B late registration starts (late fee assessed, after 5:00 p.m. on 6/26/14).

June 30, Tuesday, 11:59 p.m.

Summer B drop/add ends.

Summer B late registration ends (late fee assessed).

Summer B deadline to withdraw with no fee liability

July 2015

July 1, Wednesday

Summer B/C Degree application deadline—no exceptions will be granted after this date.

<http://graduateschool.ufl.edu/files/graduation-checklist.pdf>

<http://www.isis.ufl.edu/>

Midpoint of Summer term

Deadline to finalize all data (except Final Exam) in GIMS for all degree applicants

July 3, Friday, Independence Day, observed

No classes

July 7, Tuesday, 5:00 p.m.

Last day to submit successfully defended thesis for review by Graduate School Editorial Office

graduateschool.ufl.edu/files/checklist-thesis.pdf

Deadline for final exam forms to be posted to GIMS for thesis students.

July 8, Wednesday, 5:00 p.m.

Summer B deadline to withdraw with 25% refund (W symbol assigned):

<http://www.registrar.ufl.edu/pdf/withdrawal.pdf> or 222 Criser Hall

Deadline for Summer B courses for Graduate Student Records to review S/U option applications for courses approved with this grading scheme

July 10, Friday, 3:30 p.m.

Summer B fee payment deadline

Summer B residency reclassification deadline for receiving the request and all documents

July 27, Monday, 5:00 p.m.

Deadline for final exam forms to be posted to GIMS for dissertation, non-thesis, project, and project-in-lieu of thesis students

Deadline for ETD Signature Pages to be posted to GIMS for thesis and dissertation students

Deadline for thesis and dissertation students to submit final pdf document for review by the Graduate School Editorial Office in order to qualify for degree award this term
No exceptions can be granted.

graduateschool.ufl.edu/files/editorial-deadlines.pdf

www.graduateschool.ufl.edu/graduation/checklists

July 31, Friday, 5:00 p.m.

Last day to withdraw (all courses) for Summer B or Summer C via ISIS without failing grades
<http://www.registrar.ufl.edu/currents/withdraw.html>

August 2015

August 4, Tuesday, 5:00 p.m.

Deadline for thesis and dissertation students to receive an e-mail confirming Final Clearance status with the Graduate School Editorial Office to remain eligible for a degree award this term
 No exceptions can be granted.
graduateschool.ufl.edu/files/editorial-deadlines.pdf

August 7, Friday

Summer B and C classes end.

Final examinations are during regular class periods.

August 7, Friday, 5:00 p.m.

Last day to drop a course and receive W on transcript for Summer B or Summer C via College petition to the Registrar, Room 222 Criser

Last day to withdraw (all courses) without failing grades for Summer B or Summer C via College petition to the Registrar, Room 222 Criser

Deadline for requesting transfer of credit (for fall degree candidates)

August 8, Saturday

Commencement+

August 10, Monday, 12:00 noon

Summer B and C final term grades are due.

August 11, Tuesday

Degree certification

August 12, Wednesday

Unofficial transcripts with grades and remarks are available via ISIS.

NOTES: All dates and deadlines are subject to change and will be updated accordingly.
Prospective students should contact the appropriate academic unit for admission application deadlines.

+ Projected dates. Notification of dates and times of ceremonies for colleges and schools will be sent to degree candidates as soon as plans are finalized. Please do not anticipate exact dates and times until notification is received.

University of Florida Graduate Majors

The information in this catalog is current as of July 2012. Please contact individual programs for any additional information or changes.
[Click here for the homepages of the individual units.](#)

The following graduate programs (majors)⁺ are offered by the University of Florida. Additional graduate concentrations offered by UF appear in parentheses.

College of Agricultural and Life Sciences

Dean: Elaine Turner

Complete faculty listings: [Follow this link.](#)

The College of Agricultural and Life Sciences offers academic programs and grants advanced degrees in 17 departments and the Schools of Forest Resources and Conservation, and Natural Resources and Environment. These academic units are all a part of the Institute of Food and Agricultural Sciences (IFAS). Additional components of IFAS include 16 research centers located throughout the state and cooperative extension offices in each of the 67 counties of the state.

The following courses are offered under the supervision of the office of the dean by an interdisciplinary faculty and deal with material of concern to two or more IFAS academic units. The courses are also open to students of other colleges, with the permission of the course instructor.

For more information, please see our website: <http://cals.ufl.edu>

[Departments and Programs within the College of Agricultural and Life Sciences](#)

[College of Agricultural and Life Sciences Courses](#)

Other

Agricultural and Biological Engineering (CALS)

College

- [College of Agricultural and Life Sciences](#)
- [College of Engineering](#)

Department/School

[Agricultural and Biological Engineering Department](#)

Agricultural and Biological Engineering Program

The degrees of Master of Science, Master of Engineering, and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Additional information can also be found on the graduate studies pages on the department website at www.abe.ufl.edu.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Degrees Offered with a Major in Agricultural and Biological Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Agricultural and Biological Engineering Courses

- ABE 5015: Empirical Models of Crop Growth and Yield Response
- ABE 5038: Recent Developments and Applications in Biosensors
- ABE 5152: Electro-Hydraulic Circuits and Controls
- ABE 5332: Advanced Agricultural Structures
- ABE 5442: Advanced Agricultural Process Engineering
- ABE 5643C: Biological Systems Modeling
- ABE 5646: Biological and Agricultural Systems Simulation
- ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials
- ABE 5663: Advanced Applied Microbial Biotechnology
- ABE 5707C: Agricultural Waste Management
- ABE 5815C: Food and Bioprocess Engineering Design
- ABE 6005: Applied Control for Automation and Robots
- ABE 6031: Instrumentation in Agricultural Engineering Research
- ABE 6035: Advanced Remote Sensing: Science and Sensors
- ABE 6037C: Remote Sensing in Hydrology
- ABE 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6265: Vadose Zone Modeling
- ABE 6266: Nanotechnology in Water Research
- ABE 6615: Advanced Heat and Mass Transfer in Biological Systems
- ABE 6644: Agricultural Decision Systems
- ABE 6816: Food and Bioprocess Sterilization
- ABE 6905: Individual Work in Agricultural and Biological Engineering
- ABE 6910: Supervised Research
- ABE 6931: Seminar
- ABE 6933: Special Topics in Agricultural and Biological Engineering
- ABE 6940: Supervised Teaching
- ABE 6971: Research for Master's Thesis
- ABE 6972: Research for Engineer's Thesis
- ABE 6974: Nonthesis Project
- ABE 6986: Applied Mathematics in Agricultural and Biological Engineering

- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- AOM5334C: Agricultural Chemical Application Technology
- AOM5431: GIS and Remote Sensing in Agriculture and Natural Resources
- AOM5435: Advanced Precision Agriculture
- AOM6905: Individual Work in Agricultural Operations Management
- AOM6932: Special Topics in Agricultural Operations Management
- CWR 6536: Stochastic Subsurface Hydrology
- PKG 5003: Advanced Distribution and Transport Packaging
- PKG 5006: Advanced Packaging Principles
- PKG 5105: Advanced Consumer Products Packaging
- PKG 5206C: Advanced Package Decoration
- PKG 5256C: Advanced Analytical Packaging Methods
- PKG 6100: Advanced Computer Tools for Packaging
- PKG 6905: Individual Work in Packaging
- PKG 6932: Special Topics in Packaging Sciences

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agricultural Education and Communication

College

[College of Agricultural and Life Sciences](#)

Department/School

[Agricultural Education and Communication Department](#)

Agricultural Education and Communication Program

The Master of Science program is designed to prepare graduates for domestic and international teaching, research, extension, administrative and leadership positions in both the public and private sectors. Courses are taught in an agricultural and natural resources context and are broadly applicable in educational, business, government, and agency settings. The Master of Science program is delivered on-campus and online via the AEC e-Learning Institute (eLI). The Doctor of Philosophy degree program is primarily designed to prepare graduates for academic positions in teaching, research, and extension within the realm of Agricultural Education and Communication. In addition, graduates may obtain positions in administration, human resource management, or training and development.

The **Agricultural Communication** specialization prepares students for professional communication careers in or dealing with agriculture and agribusiness. It is intended primarily for students who enter with a bachelor's degree in journalism, agricultural communication/journalism, advertising, broadcasting, public relations, or related fields. Graduates of this option are employed in: (1) communication or management positions with the numerous commodity or special-interest associations in agriculture and related fields; (2) communication support positions in agricultural extension and research information departments of land-grant universities, agencies of USDA, state Departments of Agriculture, and agricultural development projects overseas; (3) advertising and public relations positions with agribusiness firms or commodity associations; and (4) media positions involved in reporting on agriculture, agribusiness, and natural resource issues. Students in Agricultural Communication also develop strong skills/application in media writing, production, campaign strategies and/or Web design/desktop publishing. Graduates become prepared for positions in both public and private sectors in both industry and educational settings.

The **Agricultural Educations** specialization is designed to enhance the careers of those employed in the educational professions in agriculture and natural resources. Regardless if one is employed in public school teaching, community college instruction, or training and development in agribusiness, students gain valuable knowledge and experience in designing, implementing, and evaluating educational programs. In addition, graduates of the program command added depth in the understanding of the teaching and learning process. This specialization may be designed to allow students to complete the requirements of teacher certification while completing their master's degree program. The PhD is a research-oriented degree that has a primary focus of preparing candidates to assume faculty positions in colleges or university teacher education programs. Candidates develop an individual program of study that provides a comprehensive knowledge of teaching and learning processes. The degree also seeks to extend the candidate's development by providing instruction, research opportunities, and experiences that enhance the depth and breadth of the candidate's prior learning opportunities.

The **Extension Education** specialization is designed to prepare students for careers in the Cooperative Extension service, outreach education, and/or other international agencies. Through coursework and research, students will gain valuable knowledge and experience in designing, implementing, and evaluating educational programs. Extension graduate students choose between a domestic or international focus in regards to coursework and/or research. In addition, graduates of the program command tremendous depth of the teaching and learning process. Candidates who select the **Extension Education** specialization develop an individual program of study that focuses on such topics as program development, experiential education, the change process, educational technologies and extension, program evaluation and organizational accountability, administration and leadership, and international extension. Graduates become prepared for a variety of positions including extension specialists, county and district extension directors, outreach education coordinators for private and public agencies, 4-H Extension agents and specialists, and educator specialists with international agencies.

The **Leadership Development** specialization is designed to prepare students for educational leadership, training, and outreach positions in agricultural, extension, community and governmental agencies. Course work in the major will focus on a core of agricultural courses along with emphasis in designing educational/training programs, professional presentation enhancement, leadership development, teaching/training methods, and interpersonal communication. Candidates who select the **Leadership Development** specialization develop an individual program that focuses on leadership theory and measurement, critical and creative thinking and leadership in cross-cultural settings. Students will encompass a strong research and theory-based program with a strong knowledge of training and development, and human resource management. Graduates become prepared for positions in both public and private sectors in both industry and educational settings.

Degrees Offered with a Major in Agricultural Education and Communication

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

Master of Science

without a concentration

concentration in Tropical Conservation and Development

Agricultural Education and Communication Courses

- AEC 5032: Agricultural Media Writing
- AEC 5037: Agricultural Media Production
- AEC 5060: Public Opinion and Agricultural and Natural Resource Issues
- AEC 5074: Agriculture, Resources, People, and the Environment: A Global Perspective
- AEC 5201: Teaching in Colleges of Agricultural and Life Sciences
- AEC 5203: Advanced Teaching in Colleges of Agricultural and Life Sciences
- AEC 5206: Teaching Methods in Agricultural Education
- AEC 5227: Teaching in Agricultural Education Laboratory Facilities
- AEC 5302: Professional Skill Development in Agriscience Education I
- AEC 5324: Philosophy and Development of Agricultural Education
- AEC 5454: Leadership Development for Extension and Community Nonprofit Organizations
- AEC 5501: Professional Skill Development in Agriscience Education II
- AEC 5541: Communication and Instructional Technologies in Agricultural and Life Sciences
- AEC 5544: Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies
- AEC 5545: Special Methods in Teaching Agriculture
- AEC 5546: Program Planning in Agricultural Education
- AEC 6205: Advanced Curriculum and Teaching Methods
- AEC 6210: Designing Educational Programs in Agricultural Settings
- AEC 6211: Delivering Educational Programs in Agricultural Settings
- AEC 6212: Teacher Education in Agriculture
- AEC 6229: Laboratory Instruction: Theory and Practice
- AEC 6300: Methodology of Planned Change
- AEC 6316: From America to Zimbabwe: An Overview of International Extension Systems
- AEC 6321: The Land Grant University and University Governance
- AEC 6325: History and Philosophy of Agricultural Education
- AEC 6419: Communication and Competencies for Global Leadership

- AEC 6426: Development of a Volunteer Leadership Program
- AEC 6512: Program Development in Extension Education
- AEC 6540: Agricultural and Natural Resources Communications Theory and Strategies
- AEC 6543: Teaching and Learning Theory: Applications in Agricultural Education
- AEC 6552: Evaluating Programs in Extension Education
- AEC 6611: Agricultural and Extension Adult Education
- AEC 6704: Extension Administration and Supervision
- AEC 6767: Research Strategies in Agricultural Education and Communication
- AEC 6905: Problems in Agricultural and Extension Education
- AEC 6910: Supervised Research
- AEC 6912: Nonthesis Research in Agricultural and Extension Education
- AEC 6933: Seminar in Agricultural Education and Communication
- AEC 6940: Supervised Teaching
- AEC 6945: Practicum in Agricultural Education and Communication
- AEC 6947: Experiential Learning in Agricultural Education
- AEC 6971: Research for Master's Thesis
- AEC 7979: Advanced Research
- AEC 7980: Research for Doctoral Dissertation
- AGG 5504: Critical and Creative Thinking in Problem Solving and Decision Making

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Agronomy

College

[College of Agricultural and Life Sciences](#)

Department/School

[Agronomy Department](#)

Agronomy Program Information

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis option) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agronomic plants in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in one or more of several countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

Degrees Offered with a Major in Agronomy

Doctor of Philosophy

without a concentration

concentration in Toxicology

concentration in Tropical Conservation and Development

Master of Science

without a concentration

concentration in Agroecology

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

Agronomy Departmental Courses

- AGR 5215C: Integrated Field Crop Science
- AGR 5230C: Florida Grassland Agroecosystems
- AGR 5266C: Field Plot Techniques
- AGR 5277C: Tropical Crop Production
- AGR 5307: Molecular Genetics for Crop Improvement
- AGR 5321C: Genetic Improvement of Plants
- AGR 5444: Ecophysiology of Crop Production
- AGR 5511: Crop Ecology
- AGR 6233: Tropical Grassland Agroecosystems
- AGR 6237C: Research Techniques in Forage Evaluation
- AGR 6311: Population Genetics
- AGR 6322: Advanced Plant Breeding
- AGR 6325L: Plant Breeding Techniques
- AGR 6353: Cytogenetics
- AGR 6422C: Environmental Crop Nutrition
- AGR 6442C: Physiology of Agronomic Plants
- AGR 6905: Agronomic Problems
- AGR 6910: Supervised Research
- AGR 6932: Topics in Agronomy
- AGR 6933: Graduate Agronomy Seminar
- AGR 6940: Supervised Teaching
- AGR 6971: Research for Master's Thesis
- AGR 7979: Advanced Research
- AGR 7980: Research for Doctoral Dissertation
- ALS 5155: Global Agroecosystems
- IPM5305: Principles of Pesticides
- PLS 5632C: Integrated Weed Management
- PLS 5652: Advanced Weed Science
- PLS 6623: Weed Ecology
- PLS 6626: Invasive Plant Ecology
- PLS 6655: Plant/Herbicide Interaction

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals

- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Animal Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Animal Sciences Department](#)

Animal Sciences Program

The Department of Animal Sciences offers the degrees of Master of Science and Doctor of Philosophy in animal sciences with emphasis in beef or dairy cattle, swine, or equine. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The following specializations are available:

- Breeding and genetics
- Management
- Nutrition (nutritional physiology, nutrient metabolism, and feedstuff utilization)
- Physiology (environmental, lactational, and reproductive)
- Molecular biology (embryology, endocrinology, and genetics)
- Meat science (meat processing, meat quality, muscle biology, and food safety)

A student may work on a problem covering more than one area of study. Animal resources (beef cattle, dairy cattle, horses, swine, sheep, and laboratory animals) are available for use in various research programs. Nutrition, physiology, and meats laboratories are available for detailed chemical and carcass quality evaluations, and excellent computer facilities are available. Special arrangements may be made to conduct research at the various branch agricultural experiment stations throughout Florida.

Departmental and program prerequisites for admission to graduate study include a sound science background, with basic courses in microbiology, biology, mathematics, and chemistry. All courses in the animal sciences program area are acceptable for graduate credit as part of the candidate's major.

The Graduate School restricts graduate students from pursuing minors in academic units that contribute major credit toward their degree program. Therefore, graduate students majoring in Animal Sciences cannot pursue a minor in Food and Resource Economics, Food Science and Human Nutrition, Medicine-Biochemistry, and Veterinary Medical Sciences. In addition, undergraduate credits at the 3000-4000 level in the major of any of these listed academic units are not eligible to count toward degree requirements.

Degrees Offered with a Major in Animal Sciences

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

Master of Science

without a concentration

Animal Sciences Departmental Courses

- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6314: Experimental Embryology
- ANS 6447: Ruminant Nutrition
- ANS 6449: Vitamins

- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- ANS 6705: Muscle Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
- ANS 6767: Molecular Endocrinology
- ANS 6775: Essentials of Livestock Immunology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- PCB 6816: Thermal Physiology

Additional Courses for Major Credit in Animal Sciences

- AEB 5326: Agribusiness Financial Management
- AEB 6385: Management Strategies for Agribusiness Firms
- AEB 7182: Agricultural Risk Analysis and Decision Making
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5732: Current Issues in Food Regulations
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- VME 5162C: Avian Diseases
- VME 5244: Physiology: Organ Systems

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Entomology and Nematology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Entomology and Nematology Department](#)

Entomology and Nematology Program Information

The Entomology and Nematology department offers research-based M.S. (thesis) and PhD degrees in entomology and in nematology. Our large faculty in Gainesville and at Research and Education Centers around the state allow for study in many important areas, including behavior, ecology, systematics, biological control, nematology, pest management, and medical, veterinary and urban entomology. Molecular, whole organism and population ecology studies are all within the range of supported research in the Entomology and Nematology department, and our nematology program is one of the most comprehensive in the nation.

The M.S. degree can be taken in a non-thesis format, in Gainesville or entirely online, with a specialization in either entomology or pest management. Online M.S. degrees are designed to accommodate place-bound students interested in biological science with emphasis on insects and other arthropods, including extension faculty and other educators; state and federal employees in agricultural, environmental and regulatory positions; consultants; pest control industry personnel; and others who want to further their education.

Certificates, comprising 15 credit hours of specific coursework, are available online or to residential students with concentrations in urban pest management, landscape pest management or medical entomology. These certificates document specialization and proficiency in sub-disciplines within entomology for enrolled graduate students and provide evidence of expertise for non-degree seeking students.

Students entering graduate programs in entomology and nematology should have a strong science background, including biology, chemistry, and algebra. Physics and statistics are recommended. Admissions criteria can be found on the Graduate School's [Admission](#) page.

Degrees Offered with a Major in Entomology and Nematology

Doctor of Philosophy

Master of Science

Entomology and Nematology Departmental Courses

- ALS 5156: Agricultural Ecology Principles and Applications
- ALS 6046: Grant Writing
- ALS 6166: Exotic Species and Biosecurity Issues
- ALS 6935: Topics in Biological Invasions
- ENY 5006: Graduate Survey of Entomology
- ENY 5006L: Graduate Survey of Entomology Laboratory
- ENY 5031C: Insect Field Biology
- ENY 5151C: Techniques in Insect Systematics
- ENY 5160C: Survey of Science with Insects
- ENY 5164: Graduate Survey of Invertebrate Field Biology
- ENY 5212: Insects and Wildlife
- ENY 5223C: Biology and Identification of Urban Pests
- ENY 5226C: Principles of Urban Pest Management
- ENY 5332: Graduate Survey of Urban Vertebrate Pest Management
- ENY 5236: Insect Pest and Vector Management
- ENY 5241: Biological Control
- ENY 5245: Agricultural Acarology
- ENY 5405: Insects as Vectors of Plant Pathogens
- ENY 5516: Turf and Ornamental Entomology
- ENY 5566: Tropical Entomology
- ENY 5567: Tropical Entomology Field Laboratory
- ENY 5572: Advanced Apiculture
- ENY 5611: Immature Insects
- ENY 5820: Insect Molecular Genetics
- ENY 6166: Insect Classification
- ENY 6203: Insect Ecology
- ENY 6203L: Insect Ecology Laboratory
- ENY 6248: Termite Biology and Control
- ENY 6401: Insect Physiology
- ENY 6401L: Insect Physiology Laboratory
- ENY 6454: Behavioral Ecology and Systematics of Insects
- ENY 6591C: Advanced Mosquito Identification
- ENY 6593: Advanced Mosquito Biology
- ENY 6651C: Insect Toxicology

- ENY 6665: Advanced Medical and Veterinary Entomology I
- ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory
- ENY 6706: Forensic Entomology
- ENY 6706I: Forensic Entomology Laboratory
- ENY 6821: Insect Microbiology
- ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens
- ENY 6905: Problems in Entomology
- ENY 6910: Supervised Research
- ENY 6931: Entomology Seminar
- ENY 6932: Special Topics in Entomology
- ENY 6934: Selected Studies in Entomology
- ENY 6940: Supervised Teaching
- ENY 6942: Insect Diagnostics
- ENY 6943: Entomology Internship
- ENY 6944: Entomology Extension Internship
- ENY 6971: Research for Master's Thesis
- ENY 7979: Advanced Research
- ENY 7980: Research for Doctoral Dissertation
- NEM 5004C: Graduate Survey of Nematology
- NEM 5707C: Plant Nematology
- NEM 6101C: Nematode Morphology and Anatomy
- NEM 6102: Nematode Systematics and Molecular Phylogeny
- NEM 6102L: Nematode Systematics and Molecular Phylogeny Laboratory
- NEM 6103: Insect Parasitic Nematodes
- NEM 6104L: Insect Parasitic Nematodes Laboratory
- NEM 6201: Nematode Ecology
- NEM 6708: Field Plant Nematology
- NEM 6905: Problems in Nematology
- NEM 6931: Nematology Seminar
- NEM 6932: Special Topics in Nematology
- NEM 6934: Selected Studies in Nematology
- NEM 6940: Supervised Teaching
- NEM 6942: Nematode Diagnostics
- NEM 6943: Nematode Internship
- NEM 6944: Nematode Extension Internship
- NEM 6971: Research for Master's Thesis
- NEM 7979: Advanced Research
- NEM 7980: Research for Doctoral Dissertation
- PMA 5205: Citrus Pest Management
- PMA 6228: Field Techniques in Integrated Pest Management

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Family, Youth, and Community Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Family, Youth, and Community Sciences Department](#)

Master of Science in Family, Youth and Community Sciences

The Master of Science in FYCS offers two degree options—a thesis and a non-thesis. Both options prepare students for advanced professional positions. FYCS students in either option may complete the FYCS Concentration in Nonprofit Organizational Development, the Certificate in Nonprofit Organizational Development, or the Certificate in Personal & Family Financial Planning.

Thesis Option prepares students to conduct independent research needed to develop science-based solutions to problems, issues and policies that affect families, youth and communities. Students develop expertise in a subject matter area directly relevant to the problem or need they want to address with the thesis research.

Non-Thesis Project Option provides the student with a broad base of knowledge and skills in the discipline. Students complete a non-thesis project determined in consultation with the supervisory committee. Projects vary in nature and may include directed research, program evaluation, or other empirically-based projects.

The Minor in Family, Youth and Community Sciences provides students with knowledge about the theories and body of research that explain how families, youth and communities develop and interact. The minor consists of nine hours of study.

The Minor in Organizational Leadership for Nonprofits provides students with an understanding of how to develop not-for-profit organizations to address problems facing families, youth and communities. The minor consists of six hours of study (nine hours for doctoral students).

Concentration in Nonprofit Organizational Development The nonprofit organizational development concentration will prepare students to work with tax exempt nonprofit organizations and informal community based groups that serve a charitable purpose for the public good. The concentration includes the study of the historical development of nonprofits in the US that enable students to understand the unique aspects of nonprofits and their growing importance and impact on our society. It provides students with a knowledge base for aspiring nonprofit organizational leaders and proven competencies for practicing professionals in the nonprofit sector.

The Graduate Certificate in Nonprofit Leadership will prepare students to work with all 501 (c) nonprofit organizations, tax exempt and others. Courses provide an in depth understanding for developing and sustaining an efficient and effective nonprofit organization. Core competencies in governance, strategic planning, fund raising, and risk management are included as well as other tools.

The Graduate Certificate in Personal and Family Financial Planning The certificate addresses the Certified Financial Planner™ (CFP) Board of Standards education requirement for sitting for the CFP examination, including insurance, personal investing, retirement planning, tax planning, behavioral finance, financial planning practice management and foundational family economic theories. The CFP designation is the leading standard in financial planning and our program is registered with the CFP Board of Standards enabling students to sit for the exam upon completion of the certificate.

Degrees Offered with a Major in Family, Youth, and Community Sciences

Master of Science

without a concentration

concentration in Community Studies

concentration in Family and Youth Development

concentration in Nonprofit Organization Development

Courses

- FYC 5008: Personal and Family Tax Planning
- FYC 5009: Personal and Family Insurance Planning
- FYC 5106: Personal and Family Retirement and Estate Planning
- FYC 5935: Personal and Family Financial Planning Capstone
- FYC 6020: Principles of Family, Youth, and Community Sciences
- FYC 6111: Families and Violence
- FYC 6117: Military Families in Community Context
- FYC 6131: Ethics for FYCS Practitioners
- FYC 6207: Adolescent Problematic Behavior
- FYC 6221: Grant Proposals for Community-Based Organizations
- FYC 6222: Parenting and Child Relationships
- FYC 6223: Promoting Positive Youth Development
- FYC 6224: Resilience and Positive Youth Development
- FYC 6230: Theories of Youth and Family Development
 - FYC 6232

- FYC 6234: Theoretical Approaches to Youth Programming
- FYC 6302: Sustainable Community Development
- FYC 6320: Community Development and Civic Engagement
- FYC 6330: Theories of Community Development
- FYC 6331: Involving Youths in Community Issues
- FYC 6412: Historical Foundations of Philanthropy
- FYC 6421: Nonprofit Organizations
- FYC 6422: Policy Issues and Case Studies in Nonprofit Organizations
- FYC 6423: Non-Governmental Organizations
- FYC 6424: Fund Raising for Community Nonprofit Organizations
- FYC 6425: Risk Management in Nonprofit Organizations
- FYC 6620: Program Planning and Evaluation for Human Service Delivery
- FYC 6662: Public Policy and Human Resource Development
- FYC 6800: Scientific Reasoning and Research Design
- FYC 6802: Advanced Research Methods for Family, Youth, and Community Sciences
- FYC 6901: Problems in Family, Youth, and Community Sciences
- FYC 6912: Nonthesis Project in Family, Youth, and Community Sciences
- FYC 6932: Topics, in Family, Youth, and Community Sciences
- FYC 6933: Seminar in Human Resource Development
- FYC 6934: Professional Internship/Practicum in Family, Youth, and Community Sciences
- FYC 6971: Research for Master's Thesis

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Fisheries and Aquatic Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Forest Resources and Conservation](#)

Fisheries and Aquatic Sciences Program

Director: T. L. White

Graduate Coordinator: William J. Lindberg

Complete faculty listing by department: [Follow this link.](#)

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas.

The School's program in Fisheries and Aquatic Sciences leads to the Master of Science, Master of Fisheries and Aquatic Sciences (nonthesis), and Doctor of Philosophy degrees with a program in Fisheries and Aquatic Sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Fisheries and Aquatic Sciences program also offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

The School of Forest Resources and Conservation's program in Fisheries and Aquatic Sciences conducts research, teaching, and extension programs in four broad areas:

- Sustainable fisheries
- Aquaculture
- Aquatic animal health
- Conservation and management of aquatic environments

Faculty encompass both freshwater and marine environments, as well as managed aquaculture systems. Collaborators include the UF College of Veterinary Medicine, National Biological Survey, National Marine Fisheries Service, Harbor Branch Oceanographic Institute, Mote Marine Laboratory, the US Geologic Survey, the Florida Fish and Wildlife Conservation

Commission, and others. Academic programs are structured to emphasize direct engagement of students with faculty. Further information, including specific degree options, faculty biographies, and information on the admissions process, is available at: <http://sfrc.ufl.edu>.

Degrees Offered with a Major in Fisheries and Aquatic Sciences

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

Master of Fisheries and Aquatic Sciences

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Natural Resource Policy and Administration

concentration in Wetland Sciences

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation

- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food and Resource Economics

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food and Resource Economics Department](#)

Food and Resource Economics Program Information

The Food and Resource Economics Department offers the Master of Agribusiness (M.AB.) (non-thesis), Master of Science with Concentration in Agribusiness (M.S.AB.) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The **Ph.D. in Food and Resource Economics** is designed to provide the student with rigorous training in economics, statistics, and applied quantitative techniques. Each student is exposed to core theory and to fields of specialization with the purpose to prepare the candidate for a professional career in post-secondary education, government, non-governmental organizations, private business, and international agencies.

The **Master of Agribusiness** is designed specifically for students with no academic background in economics or agricultural economics. The program is made up of students from diverse backgrounds including Accounting, Agricultural Education and Communication, Agricultural Operations Management, Animal Science, Business Administration, Finance, Food Science, Horticulture, Management, Turfgrass, and Wildlife Ecology and Conservation. The graduate coursework complements the student's undergraduate background and prepare them for careers in financial analysis, sales, management, marketing, human resources, policy, production, and entrepreneurial pursuits working in private industry, international firms, non-profit organizations and government.

The **Master of Science** in the Food and Resource Economics Department provides broad training in applied economics as it relates to food production, marketing and trade, regional economics, and natural resource issues. Students are taught to use basic economic principles and quantitative methods to address empirical problems. The core consists of graduate level courses in microeconomics, policy, econometrics, statistics and survey research methods. Many students elect to continue their education with a Ph.D. degree while others opt for employment with government agencies, non-governmental organizations, foreign agencies, private consulting firms, or corporations.

The **Master of Science with Concentration in Agribusiness** is designed specifically for students with an educational background in economics and agricultural economics. The quantitative courses include microeconomics, policy, econometrics and survey research methods and provide solid economic theory to prepare students for careers in financial analysis, sales, management, marketing, human resources, policy, production, and entrepreneurial pursuits working in private industry, international firms, non-profit organizations and government.

For more information, please see our website: <http://www.fred.ifas.ufl.edu>.

Degrees Offered with a Major in Food and Resource Economics

Doctor of Philosophy

without a concentration

with a concentration in Hydrologic Sciences

with a concentration in Toxicology

with a concentration in Tropical Conservation and Development

Master of Agribusiness

without a concentration

with a concentration in Tropical Conservation and Development

Master of Science

without a concentration

with a concentration in Agribusiness

with a concentration in Hydrologic Sciences

with a concentration in Toxicology

with a concentration in Tropical Conservation and Development

Courses

- AEB 5167: Economic Analysis in Small Farm Livelihood Systems
- AEB 5188: Economics of Agribusiness Decisions
- AEB 5326: Agribusiness Financial Management
- AEB 5516: Quantitative Methods in Agribusiness Decisions
- AEB 5757: Strategic Agribusiness Human Resource Management
- AEB 6106: Microeconomic Principles and Analysis
- AEB 6139: Strategic Agribusiness Management
- AEB 6145: Agricultural Finance
- AEB 6183: Agribusiness Risk Management
- AEB 6225: Public Policy and the Agribusiness Firm
- AEB 6301: Food Wholesale and Retail Marketing
- AEB 6363: Agricultural Marketing
- AEB 6385: Management Strategies for Agribusiness Firms
- AEB 6533: Static and Dynamic Optimization Models in Agriculture
- AEB 6553: Elements of Econometrics
- AEB 6592: Mathematical Programming for Economic Analysis
- AEB 6675: International Agribusiness Marketing
- AEB 6815: Science and Research Methodology
- AEB 6817: Survey Research Methods for Economists
- AEB 6905: Problems in Food and Resource Economics
- AEB 6910: Supervised Research
- AEB 6921: Workshop in Food and Resource Economics I
- AEB 6933: Special Topics
- AEB 6934: Workshop in Food and Resource Economics II
- AEB 6942: Advanced Applications in Agribusiness Experience
- AEB 6971: Research for Master's Thesis
- AEB 7108: Microeconomic Theory II
- AEB 7174: Economic Coordination and Organizational Behavior in Agribusiness
- AEB 7182: Agricultural Risk Analysis and Decision Making
- AEB 7184: Production Economics
- AEB 7240: Macroeconomic Theory in Open Economies II
- AEB 7373: Consumer Demand and Applied Analysis
- AEB 7453: Natural Resource and Environmental Economics
- AEB 7483: Seminar in Natural Resource and Environmental Economics
- AEB 7571: Econometric Methods I
- AEB 7572: Econometric Methods II
- AEB 7645: Economic Development and Agriculture
- AEB 7979: Advanced Research
- AEB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Food Science Program Information

The Ph.D. program in Food Science is a multidisciplinary program consisting of Food Chemistry, Food Processing and Engineering, and Food Microbiology and Safety. Students are expected to obtain a breadth of food science knowledge by taking courses in all program areas with the majority of courses stressing one of the three areas of emphasis.

For further information, please see our website at: <http://fshn.ifas.ufl.edu>.

Doctor of Philosophy

without a concentration

concentration in Toxicology

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Food Science and Human Nutrition

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Food Science and Human Nutrition Program

The M.S. program offers tracks in food science and in nutritional sciences. The Institute of Food Technologists and the American Society for Nutrition recognize these concentrations. The department also offers a combined Master of Science-Dietetics Internship (MS-DI) program accredited by the Commission on Accreditation for Dietetic Education (CADE). Students who complete this program are eligible to take the national registration examination to become a registered dietitian. Only graduates from a CADE accredited/approved Didactic Program in Dietetics are eligible for the MS-DI program.

Specific areas of study include nutritional biochemistry/molecular biology, nutrient function/metabolism, medical nutrition therapy/dietetics, nutritional immunology, food processing/engineering, food chemistry/biochemistry, and food safety/microbiology/quality.

Applicants must have an adequate background in physical and biological sciences and food science or nutritional sciences. Students with specific deficiencies will be required to take prerequisite courses.

For further information, please see our website at: <http://fshn.ifas.ufl.edu>.

Degrees Offered with a Major in Food Science and Human Nutrition

Master of Science

without a concentration

concentration in Nutritional Sciences

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II
- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II

- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Forest Resources and Conservation

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Forest Resources and Conservation](#)

Forest Resources and Conservation Program Information

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasize the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional masters degrees), as well as concentrations and certificates in a diversity of specific areas.

The SFRC offers graduate programs leading to the Master of Forest Resources and Conservation (professional, non-thesis), Master of Science (thesis and non-thesis), and Doctor of Philosophy degrees in Forest Resources and Conservation. The Master of Science non-thesis degree may be taken entirely online. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Forest Resources and Conservation program prepares students to work with the ecological, economic, and social aspects of natural resources, including the management of spatial information gathered through traditional surveying as well as remote sensing. Faculty have a wide variety of specializations, including fire ecology, land tenure, tree genetics, recreation management, environmental education, geographic information systems, silviculture, forest economics, and environmental policy. Further information, including specific degree options, faculty biographies, and information on the admissions process, is available at: <http://sfrc.ufl.edu>.

Degrees Offered with a Major in Forest Resources and Conservation

Doctor of Philosophy

without a concentration

concentration in Agroforestry

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Hydrologic Sciences

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Toxicology

concentration in Wetland Sciences

Master of Forest Resources and Conservation

without a concentration

concentration in Agroforestry

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Agroforestry

concentration in Ecological Restoration

concentration in Geographic Information Systems

concentration in Geomatics

concentration in Hydrologic Sciences

concentration in Natural Resource Policy and Administration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS 6103: GIS Programming and Customization
- GIS 6116: Geographic Information Systems Analysis
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5386: Image Processing for Remote Sensing
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 6375: Terrain Analysis and Mapping
- SUR 6395: Topics in Geographic Information Systems
- SUR 6427: Land Tenure and Administration
- SUR 6535: GPS-INS Integration
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5276C: Field Ecology of Aquatic Organisms
- FAS 5335C: Applied Fisheries Statistics
- FAS 5901: Scientific Thinking in Ecology
- FAS 6154: Aquatic Invertebrate Ecological Physiology
- FAS 6171: Applied Phycology
- FAS 6256: Fish and Aquatic Invertebrate Histology
- FAS 6272: Marine Ecological Processes
- FAS 6337C: Fish Population Dynamics
- FAS 6339C: Advanced Quantitative Fisheries Assessment
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Graduate Symposium
- FAS 6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS 6940: Supervised Teaching
- FAS 6971: Research for Master's Thesis
- FAS 7979: Advanced Research
- FAS 7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement

- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Genetics and Genomics

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Medicine](#)

Genetics and Genomics Program

Chair: C. Mulligan

Graduate Coordinator: J. Bungert

Complete faculty listing: [Follow this link](#)

or visit media.news.health.ufl.edu/misc/mgm/UFGI/search/members-list4.php

The University of Florida Genetics Institute is a multi-college, multi-faceted research center. Good geneticists are integrative geneticists, who incorporate many different subfields of genetics into their work. The core mission is to improve the quality of life of people throughout the world via integrative, genetics-based research. Accordingly, faculty interests and graduate research opportunities include a wide range of areas from advances in gene therapy to understanding the maintenance of genetic variation, from understanding plant immune responses to developing improved algorithms for identifying regulatory motifs in DNA sequences, and from the challenges of bioethics to strategies for controlling malaria.

The highlight of the first year core training is the research rotations program. Student laboratory rotations are a particularly exciting feature of the genetics and genomics doctoral program, and epitomize the philosophy that good geneticists are broadly trained and integrative. Many current Graduate Faculty members still vividly recall the transforming effects of their rotations during graduate school—they didn't always end up where they expected! Rotations can open students' eyes to areas of genetics that they had never considered and entice them into considering brand new career opportunities. Each student will sample the breadth and depth of genetics research at UF by carrying out three 8-week modules consisting of design, implementation, and analysis of genetics experiments. Each rotation is conducted in close association with a Graduate Faculty member. To ensure that students fully experience the impressive breadth of genetics research at UF, their rotations are hosted by Graduate Faculty in at least two different colleges. Students will also take [PCB 5065](#), Advanced Genetics; [GMS 6181](#), Special Topics in Microbiology (among the topics are genomics and bioinformatics, and ethics for genetics research); [STA 6166](#), Statistical Methods I; and other electives as desired. In addition, throughout their tenure in the program, students participate in the Genetics Seminar, which is an opportunity to present their rotation plans and results of research to faculty and other students.

Prospective students should have strong backgrounds in biology and other hard sciences. Exceptional students with other backgrounds will also be considered. The research statement required as part of the application has a particularly important part in the admissions decision. Each applicant must describe his/her research interests, so that Graduate Faculty can evaluate knowledge of the discipline, fit to the program, and ability to articulate and motivate an interesting research problem. The required letters of recommendation are also extremely important in helping identify applicants with exceptional aptitude for genetics, and with research experience and promise.

For more information, write to the Genetics and Genomics Graduate Program, Attn: Graduate Secretary, Genetics Institute, University of Florida, PO Box 100196, Gainesville, FL 32610-0196.

Expanded information can be found at <http://www.ufgi.ufl.edu>.

Degrees Offered with a Major in Genetics and Genomics

Doctor of Philosophy

Doctor of Philosophy - Clinical and Translational Science

Courses

- AGR 6322: Advanced Plant Breeding
- ANG 6532: Molecular Genetics of Disease
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 7410: Advanced Gene Regulation
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5805: Computer Simulation Concepts
- CIS 6930: Special Topics in CIS
- COT 5405: Analysis of Algorithms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6920: Genetics Journal Colloquy
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- HOS 6201: Breeding Perennial Cultivars
- PCB 5065: Advanced Genetics
- PCB 5235L: Experiments in Immunology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6178: Genetic Data Analysis
- STA 6208: Basic Design and Analysis of Experiments
- STA 6329: Matrix Algebra and Statistical Computing
- STA 6934: Special Topics in Statistics
- STA 7979: Advanced Research
- STA 7980: Research for Doctoral Dissertation
- ZOO 6927: Special Topics in Zoology
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Horticultural Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Horticultural Sciences Department](#)

Environmental Horticulture Department

Horticultural Sciences Program Information

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest.

Requirements:

A strong undergraduate or graduate background in horticultural, biological, agronomic, or other disciplines in the life sciences and undergraduate coursework in chemistry, physics, and mathematics. A prospective graduate student need not have majored in horticulture as an undergraduate or master's student; however, students with curriculum deficiencies are required to take prerequisite subjects during the first year of graduate study. Undergraduate courses taken to correct curriculum deficiencies do not count for graduate program credit.

Specializations in the HS department focus on vegetable and fruit crops and include

- Plant Breeding and Genetics
- Crop Production and Nutrient Management
- Postharvest Biology
- Organic Sustainable Agriculture
- Weed Science
- Physiology and Biochemistry
- Plant Molecular Biology
- Protected Agriculture

Numerous HS and HSE faculty participate in the interdisciplinary Plant Molecular and Cellular Biology Program. Students interested in molecular biology/biotechnology may pursue molecular-oriented studies in any listed specialization. Students interested in full specialization in molecular and related disciplines should contact the Plant Molecular and Cellular Biology interdisciplinary program for specific requirements.

Specializations in the HSE department:

- Breeding and Genetics
- Restoration Ecology
- Floriculture
- Foliage Production
- Plant anatomy and development
- Plant Biotechnology
- Plant Restoration Conservation Biotechnology
- Stress Physiology
- Taxonomy
- Tissue Culture
- Turfgrass Science
- Woody Plants

Graduate School Degree Program Requirements Master of Science (thesis option):

Students must earn at least 30 credits as a graduate student at UF. No more than 9 of the 30 credits (earned with a grade of A, B+, or B) may be transferred from institutions approved for this purpose by the Dean of the Graduate School. A minimum of 12 credits is required in the Horticultural Sciences major; additionally, a maximum of 6 credits in HOS 6971- Master's Research - may be counted toward the total credits. [See here for information on M.S. graduate degrees.](#)

A minor may be chosen in an academic unit other than the major. If a minor is chosen, at least 6 credits of course work are required in the minor field. Two 6-credit minors may be taken with the major academic unit's permission. A 3.00 (truncated) GPA is required for minor credit. In addition, a representative from the department in which the minor is being received must be on the supervisory committee.

Master of Science non-thesis option:

This option offers additional training beyond the bachelor's degree in a horticultural specialization. Essential elements of this program include a program of courses and a comprehensive written and/or final oral qualifying examination. There is no thesis requirement. A minimum of 30 credit hours of course work is required. Courses taken for program credit must be numbered 5000 or higher with at least 15 of these credits in the Horticultural Science major. With supervisory committee and college dean approval, 6 hours of 3000- or 4000-level undergraduate courses, taught outside the major department, may count toward the minimum requirements for the degree. [Click for information on all graduate degrees.](#)

A minor may be chosen in an academic unit other than the major. If a minor is chosen, at least 6 credits of work are required in the minor field. Two 6-credit minors may be taken with the major academic unit's permission. A 3.00 (truncated) GPA is required for minor credit. In addition, a representative from the department in which the minor is being received must be on the supervisory committee.

Doctor of Philosophy:

The Doctor of Philosophy is a research degree and is granted on evidence of general proficiency, distinctive attainment in a special field, and ability to conduct independent investigation as demonstrated in a dissertation presenting original research with a high degree of literary skill. Consequently, doctoral programs are more flexible and varied than those leading to M.S. degree programs. The Ph.D. degree requires at least 90 credits beyond the bachelor's degree, although specific course requirements vary from field to field and from student to student. Up to 30 credits of master's degree may be transferred to a doctoral program. Any credits counted from an M.S. degree program must have been earned within the previous seven years (or by petition). The Graduate Council does not specify the courses required for the Ph.D. degree.

General requirements for the program include

- a clear objective for research
- approval of the student's entire supervisory committee
- an appropriate number of credits of doctoral research

[Click for information on all graduate degrees.](#)

Minor: With the supervisory committee's approval, the student may choose one or more minor fields. Minor work may be completed in any academic unit outside the major, if approved for M.S. or doctoral programs listed in this catalog. The collective grade for courses included in a minor must be "B" (3.00) or higher. If one minor is chosen, the supervisory committee member representing the minor suggests 12 to 24 credits of courses numbered 5000 or higher as preparation for a qualifying examination. Part of this credit may have been earned in the M.S. degree program. If two minors are chosen, each must include at least 8 credits. Competence in the minor area is demonstrated by written examination by the minor academic unit, or by the oral

qualifying examination. Minor course work at the doctoral level may include courses in more than one academic unit; if the objective of the minor is clearly stated and the combination of courses is approved by the Graduate School (this approval is not required for a minor in one academic unit). Further requirements for the Master of Science and the Doctor of Philosophy degrees are listed under those headings in the General Information section of this catalog.

Degrees Offered with a Major in Horticultural Sciences

Doctor of Philosophy

without a concentration

concentration in Environmental Horticulture

concentration in Horticultural Sciences

concentration in Toxicology

Master of Science

without a concentration

concentration in Environmental Horticulture

concentration in Horticultural Sciences

Horticultural Sciences Program Courses

- ALS 6935: Topics in Biological Invasions
- BCH 5045: Graduate Survey of Biochemistry
- BOT 6935: Special Topics
- HOS 6934: Professional Seminar Preparation
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

Additional Course Offerings

The following courses may be taken to contribute to the overall degree award requirements.

Horticultural Sciences Departmental Courses

- ALS 5934: Graduate Professional Development Seminar
- HOS 5085C: Principles of Postharvest Horticulture
- HOS 5115C: Horticultural Plant Morphology and Identification
- HOS 5242: Genetics & Breeding of Vegetable Crops
- HOS 5306: Molecular Biology of Plant Hormones
- HOS 5330: Postharvest Technologies for Horticultural Crops
- HOS 5432: Advanced Nutritional Management of Ornamental Crops
- HOS 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding
- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6545: Advanced Citriculture I
- HOS 6546: Advanced Citriculture II
- HOS 6905: Problems in Horticultural Science
- HOS 6910: Supervised Research
- HOS 6931: Horticultural Science Seminar
- HOS 6932: Special Topics
- HOS 6940: Supervised Teaching
- HOS 6941: Practicum in Horticultural Science
- HOS 6971: Research for Master's Thesis
- HOS 7979: Advanced Research
- HOS 7980: Research for Doctoral Dissertation
- ORH 5026C: Advanced Annual and Perennial Gardening
- ORH 5086: Advanced Golf and Sports Turf Management
- ORH 5282: Orchid Biology and Culture
- ORH 5322C: Palm Biology and Culture
- ORH 5817C: Advanced Florida Native Landscaping
- ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany

- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Interdisciplinary Ecology

College

[College of Agricultural and Life Sciences](#)

Department/School

[School of Natural Resources and Environment](#)

Interdisciplinary Ecology Program

Director of Academic Programs and Graduate Coordinator: T. Frazer

Graduate students are advised by one of the 280 members of the School's affiliate faculty and have a supervisory committee with interdisciplinary composition. For the list of Graduate Faculty, see <http://sfrc.ufl.edu/fish/people/>. Graduate students are hosted in one of 44 participating academic units.

The School offers a program of study leading to the Master of Science (thesis and non-thesis options), and Doctor of Philosophy degrees in interdisciplinary ecology. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. The course work requirements and curriculum are described in more detail at <http://www.snre.ufl.edu/>. Choices among 450 courses are custom-fitted by the student and the supervisory committee to meet the student's specific needs and interests.

The Interdisciplinary Ecology program views the social-ecological system as the proper framework for addressing the full scope of complex, adaptive systems comprising humans in the natural world. The degree program challenges students to understand both natural and human dynamics to obtain a holistic view and to foster integration of human activities with natural resources and the environment. The learning outcomes of the program are to develop a thorough understanding of the components, processes, and interactions of the social-ecological system, competence in scientific research methodologies, and experience in professional interaction with peers.

The degree programs combine 1) course work in the science of ecology and additional natural and social sciences; and 2) competence in a recognized discipline in one of these fields of study. The former is achieved with a core-course and distribution requirement and the latter by extra course work for the master's and a concentration for the doctoral degree. A thesis or dissertation provides first-hand experience creating scientific knowledge. The non-thesis master's option provides rapid, advanced preparation for the job market in 3 to 4 semesters, without research experience. Course requirements are 36 semester hours for the thesis option, 38 hours for the non-thesis option, and 60 hours beyond the master's degree for the doctoral degree.

Degrees Offered with a Major in Interdisciplinary Ecology

Doctor of Philosophy

without a concentration

concentration in Agricultural and Biological Engineering

concentration in Agricultural Education and Communication

concentration in Agronomy

concentration in Anthropology

concentration in Architecture

concentration in Biochemistry and Molecular Biology

concentration in Botany

concentration in Business Administration

concentration in Chemistry

concentration in Civil Engineering

concentration in Climate Science

concentration in Coastal and Oceanographic Engineering

concentration in Economics

concentration in English

concentration in Entomology and Nematology

concentration in Environmental Engineering Sciences

concentration in Family, Youth and Community Sciences

concentration in Farming Systems

concentration in Fisheries and Aquatic Sciences

concentration in Food and Resource Economics

concentration in Food Science

concentration in Forest Resources and Conservation

concentration in Foundations of Education

concentration in Geographic Information Systems

concentration in Geography

concentration in Geology

concentration in Health and Human Performance

concentration in Horticultural Sciences

concentration in Hydrologic Sciences

concentration in Landscape Architecture

concentration in Mathematics

concentration in Microbiology and Cell Science

concentration in Nuclear and Radiological Engineering

concentration in Philosophy

concentration in Political Science

concentration in Religion

concentration in Sociology

concentration in Soil and Water Science

concentration in Statistics

concentration in Tropical Conservation and Development

concentration in Urban and Regional Planning

concentration in Veterinary Medical Sciences

concentration in Wetland Sciences

concentration in Wildlife Ecology And Conservation

concentration in Women's/Gender Studies

concentration in Zoology

Master of Science

without a concentration

concentration in Agricultural and Biological Engineering

concentration in Agricultural Education and Communication

concentration in Agronomy

concentration in Anthropology

concentration in Architecture

concentration in Biochemistry and Molecular Biology

concentration in Botany

concentration in Business Administration

concentration in Chemistry

concentration in Civil Engineering

concentration in Climate Science

concentration in Coastal and Oceanographic Engineering

concentration in Economics

concentration in English

concentration in Entomology and Nematology

concentration in Environmental Engineering Sciences

concentration in Family, Youth and Community Sciences

concentration in Farming Systems

concentration in Fisheries and Aquatic Sciences

concentration in Food and Resource Economics

concentration in Food Science

concentration in Forest Resources and Conservation

concentration in Foundations of Education

concentration in Geographic Information Systems

concentration in Geography

concentration in Geology

concentration in Health and Human Performance

concentration in Horticultural Sciences

concentration in Hydrologic Sciences

concentration in Landscape Architecture

concentration in Mathematics

concentration in Microbiology and Cell Science

concentration in Nuclear and Radiological Engineering

concentration in Philosophy

concentration in Political Science

concentration in Religion

concentration in Sociology

concentration in Soil and Water Science

concentration in Statistics

concentration in Tropical Conservation and Development

concentration in Urban and Regional Planning

concentration in Veterinary Medical Sciences

concentration in Wetland Sciences

concentration in Wildlife Ecology And Conservation

concentration in Women's/Gender Studies

concentration in Zoology

Courses

- www.snre.ufl.edu/graduate/curriculum.htm
- EVR 5322: Scientific Processes in Conservation and Development
- EVR 5705: Natural Resources and Innovation Systems
- EVR 6320: Sustainable Natural Resource Management
- EVR 6933: Seminar
- EVR 6934: Internship
- EVR 6979: Nonthesis Master's Project
- PCB 6971: Research for Master's Thesis
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Microbiology and Cell Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Microbiology and Cell Science Department](#)

Degrees Offered with a Major in Microbiology and Cell Science

Doctor of Philosophy

without a concentration

concentration in Medical Microbiology and Biochemistry

concentration in Toxicology

Master of Science

without a concentration

concentration in Medical Microbiology and Biochemistry

Courses

- MCB 5205: Microbiology of Human Pathogens
- MCB 5252: Microbiology, Immunology, and Immunotherapeutics
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 5408: Anaerobic Microbiology and Biotechnology
- MCB 5458: Energy Transformation in Microorganisms
- MCB 5505: General Virology
- MCB 6317: Molecular Biology of Gene Expression
- MCB 6318: Comparative Microbial Genomics
- MCB 6355: Microbial/Host Defense
 - MCB 6358
- MCB 6409: Microbial Cell Structure and Function
- MCB 6417: Microbial Metabolism and Energetics
- MCB 6457: Metabolic Regulation
- MCB 6465: Microbial Metabolic Engineering
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- MCB 6772: Advanced Topics in Cell Biology
- MCB 6905: Experimental Microbiology
- MCB 6910: Supervised Research
- MCB 6930: Seminar
- MCB 6937: Special Topics in Microbiology
- MCB 6940: Supervised Teaching
- MCB 6971: Research for Master's Thesis
 - MCB 6xxx
- MCB 7922: Journal Colloquy
- MCB 7979: Advanced Research
- MCB 7980: Research for Doctoral Dissertation
- PCB 5136L: Techniques in Microbial and Cell Biology
- PCB 5235: Immunology

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Nutritional Sciences

College

[College of Agricultural and Life Sciences](#)

Department/School

[Food Science and Human Nutrition Department](#)

Nutritional Sciences Program

The field of nutritional science has unprecedented public interest. This is fostered by evolving links between diet and health, and the impact of one's individual genetic makeup on nutrient utilization. The Ph.D. degree program in Nutritional Sciences is interdisciplinary, with participating CALS, COM, CLAS, and CVM faculty directing research of doctoral students, where the full spectrum of Nutritional Sciences is available. Emphasis areas include basic nutritional sciences, biochemistry and molecular biology, genetics, immunology, physiology, clinical nutrition, microbiology, and biostatistics.

Students are admitted to the program after the bachelor's degree or a master's degree in nutritional sciences or a related field. Applicants should have a strong undergraduate background in biological sciences and chemistry. Deficiencies may be made up during the first year of graduate study.

Additional information can be found at <http://nutritionalsciences.centers.ufl.edu>.

For additional information, e-mail Dr. Mitchell D. Knutson, Director at mknutson@ufl.edu or Dr. James F. Collins, Graduate Coordinator at jfcollins@ufl.edu.

Degrees Offered with a Major in Nutritional Sciences

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Nutritional Sciences Program Core Courses

[BCH 6206: Advanced Metabolism](#)

[HUN 6938: Nutritional Sciences Seminar](#)

[STA 6166: Statistical Methods in Research I](#)

[HUN 6301: Nutritional Aspects of Lipid Metabolism](#)

[HUN 6305: Nutritional Aspects of Carbohydrates](#)

[HUN 6321: Proteins and Amino Acids in Nutrition](#)

[HUN 6331: Vitamins in Human Nutrition](#)

[HUN 6356: Minerals in Nutrition](#)

Additional Course Offerings

The following courses may be taken to contribute to the overall degree award requirements.

Food Science and Human Nutrition Departmental Courses

- DIE 6241: Advanced Medical Nutrition Therapy
- DIE 6242: Advanced Medical Nutrition Therapy II

- DIE 6516: Professional Development in Dietetics
- DIE 6905: Problems in Dietetics
- DIE 6938: Advanced Dietetic Seminar
- DIE 6942: Dietetic Internship I
- DIE 6944: Dietetic Internship II
- DIE 6949: Dietetic Internship in Sports Nutrition
- FOS 5205: Current Issues in Food Safety and Sanitation
- FOS 5225C: Principles in Food Microbiology
- FOS 5437C: Food Product Development
- FOS 5561C: Citrus Processing Technology
- FOS 5645: Functional Foods and Nutraceuticals
- FOS 5732: Current Issues in Food Regulations
- FOS 6125C: Sensory Evaluation of Food
- FOS 5126C: Psychophysical Aspects of Foods
- FOS 6215: Principles of Food Safety
- FOS 6216: Food Safety Systems
- FOS 6217: Food Safety, Sanitation, and Microbiology
- FOS 6226C: Advanced Food Microbiology
- FOS 6315C: Advanced Food Chemistry
- FOS 6317C: Flavor Chemistry and Technology
- FOS 6355C: Instrumental Analysis and Separations
- FOS 6428C: Advanced Food Processing
- FOS 6455C: Industrial Food Fermentations
- FOS 6736: Food Regulations
- FOS 6905: Problems in Food Science
- FOS 6910: Supervised Research
- FOS 6915: Research Planning
- FOS 6936: Topics in Food Science
- FOS 6938: Food Science Seminar
- FOS 6940: Supervised Teaching
- FOS 6971: Research for Master's Thesis
- FOS 7979: Advanced Research
- FOS 7980: Research for Doctoral Dissertation
- HUN 5246: Current Issues in Dietary Supplements
- HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition
- HUN 5447: Nutrition and Immunity
- HUN 6245: Advanced Human Nutrition
- HUN 6255: Clinical Nutrition
- HUN 6301: Nutritional Aspects of Lipid Metabolism
- HUN 6305: Nutritional Aspects of Carbohydrates
- HUN 6321: Proteins and Amino Acids in Nutrition
- HUN 6331: Vitamins in Human Nutrition
- HUN 6356: Minerals in Nutrition
- HUN 6812C: Analytical Techniques in Nutritional Biochemistry
- HUN 6905: Problems in Nutritional Sciences
- HUN 6910: Supervised Research
- HUN 6936: Topics in Nutritional Sciences
- HUN 6938: Nutritional Sciences Seminar
- HUN 6939: Advanced Clinical Nutrition
- HUN 6940: Supervised Teaching
- HUN 6971: Research for Master's Thesis
- HUN 7979: Advanced Research
- HUN 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Medicine

College

[College of Agricultural and Life Sciences](#)

Department/School

[Entomology and Nematology Department](#)

Plant Medicine Program Information

Coordinator: Amanda C. Hodges

The Doctor of Plant Medicine (DPM) program is an intensive doctorate-level graduate level training program for students interested in plant health diagnosis and management. Requirements for the degree can be found in the [Graduate Degrees](#) section of this catalog.

DPM students complete rigorous coursework and intensive internships. Only DPM students jointly enrolled in one of our discipline department M.S. or Ph.D. programs complete a thesis or dissertation. DPM students often participate in applied research within laboratory programs, and may participate in the publication of peer-reviewed scientific and extension papers. More information regarding the latest policies for the DPM program is available in the [DPM graduate handbook](#).

The DPM program is a partnership among faculty mentors and teaching faculty within the following primary departments:

- Entomology and Nematology Department
- Department of Plant Pathology
- Agronomy Department
- Horticulture Sciences Department
- Environmental Horticulture Department
- Soil and Water Sciences Department
- Food Science and Human Nutrition Department

For more information, please see the DPM website: <http://dpm.ifas.ufl.edu>.

Degrees Offered with a Major in Plant Medicine

Doctor of Plant Medicine

without a concentration

concentration in Tropical Conservation and Development

Agronomy Departmental Courses

- AGR 5215C: Integrated Field Crop Science
- AGR 5230C: Florida Grassland Agroecosystems
- AGR 5266C: Field Plot Techniques
- AGR 5277C: Tropical Crop Production
- AGR 5307: Molecular Genetics for Crop Improvement
- AGR 5321C: Genetic Improvement of Plants
- AGR 5444: Ecophysiology of Crop Production
- AGR 5511: Crop Ecology
- AGR 6233: Tropical Grassland Agroecosystems
- AGR 6237C: Research Techniques in Forage Evaluation
- AGR 6311: Population Genetics
- AGR 6322: Advanced Plant Breeding
- AGR 6325L: Plant Breeding Techniques
- AGR 6353: Cytogenetics
- AGR 6422C: Environmental Crop Nutrition
- AGR 6442C: Physiology of Agronomic Plants
- AGR 6905: Agronomic Problems
- AGR 6910: Supervised Research
- AGR 6932: Topics in Agronomy
- AGR 6933: Graduate Agronomy Seminar
- AGR 6940: Supervised Teaching
- AGR 6971: Research for Master's Thesis
- AGR 7979: Advanced Research
- AGR 7980: Research for Doctoral Dissertation
- ALS 5155: Global Agroecosystems
- IPM5305: Principles of Pesticides
- PLS 5632C: Integrated Weed Management

- PLS 5652: Advanced Weed Science
- PLS 6623: Weed Ecology
- PLS 6626: Invasive Plant Ecology
- PLS 6655: Plant/Herbicide Interaction

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Entomology and Nematology Departmental Courses

- ALS 5156: Agricultural Ecology Principles and Applications
- ALS 6046: Grant Writing
- ALS 6166: Exotic Species and Biosecurity Issues
- ALS 6935: Topics in Biological Invasions
- ENY 5006: Graduate Survey of Entomology
- ENY 5006L: Graduate Survey of Entomology Laboratory
- ENY 5031C: Insect Field Biology
- ENY 5151C: Techniques in Insect Systematics
- ENY 5160C: Survey of Science with Insects
- ENY 5164: Graduate Survey of Invertebrate Field Biology
- ENY 5212: Insects and Wildlife
- ENY 5223C: Biology and Identification of Urban Pests
- ENY 5226C: Principles of Urban Pest Management
- ENY 5332: Graduate Survey of Urban Vertebrate Pest Management
- ENY 5236: Insect Pest and Vector Management
- ENY 5241: Biological Control
- ENY 5245: Agricultural Acarology
- ENY 5405: Insects as Vectors of Plant Pathogens
- ENY 5516: Turf and Ornamental Entomology
- ENY 5566: Tropical Entomology
- ENY 5567: Tropical Entomology Field Laboratory
- ENY 5572: Advanced Apiculture
- ENY 5611: Immature Insects
- ENY 5820: Insect Molecular Genetics
- ENY 6166: Insect Classification
- ENY 6203: Insect Ecology
- ENY 6203L: Insect Ecology Laboratory
- ENY 6248: Termite Biology and Control
- ENY 6401: Insect Physiology
- ENY 6401L: Insect Physiology Laboratory
- ENY 6454: Behavioral Ecology and Systematics of Insects
- ENY 6591C: Advanced Mosquito Identification
- ENY 6593: Advanced Mosquito Biology
- ENY 6651C: Insect Toxicology
- ENY 6665: Advanced Medical and Veterinary Entomology I
- ENY 6665L: Advanced Medical and Veterinary Entomology Laboratory
- ENY 6706: Forensic Entomology
- ENY 6706L: Forensic Entomology Laboratory
- ENY 6821: Insect Microbiology
- ENY 6822C: Molecular Biology Techniques with Invertebrates and Their Pathogens
- ENY 6905: Problems in Entomology

- ENY6910: Supervised Research
- ENY6931: Entomology Seminar
- ENY6932: Special Topics in Entomology
- ENY6934: Selected Studies in Entomology
- ENY6940: Supervised Teaching
- ENY6942: Insect Diagnostics
- ENY6943: Entomology Internship
- ENY6944: Entomology Extension Internship
- ENY6971: Research for Master's Thesis
- ENY7979: Advanced Research
- ENY7980: Research for Doctoral Dissertation
- NEM5004C: Graduate Survey of Nematology
- NEM5707C: Plant Nematology
- NEM6101C: Nematode Morphology and Anatomy
- NEM6102: Nematode Systematics and Molecular Phylogeny
- NEM6102L: Nematode Systematics and Molecular Phylogeny Laboratory
- NEM6103: Insect Parasitic Nematodes
- NEM6104L: Insect Parasitic Nematodes Laboratory
- NEM6201: Nematode Ecology
- NEM6708: Field Plant Nematology
- NEM6905: Problems in Nematology
- NEM6931: Nematology Seminar
- NEM6932: Special Topics in Nematology
- NEM6934: Selected Studies in Nematology
- NEM6940: Supervised Teaching
- NEM6942: Nematode Diagnostics
- NEM6943: Nematode Internship
- NEM6944: Nematode Extension Internship
- NEM6971: Research for Master's Thesis
- NEM7979: Advanced Research
- NEM7980: Research for Doctoral Dissertation
- PMA5205: Citrus Pest Management
- PMA6228: Field Techniques in Integrated Pest Management

School of Forest Resources and Conservation Courses

Geomatics Concentration Courses

- GIS6103: GIS Programming and Customization
- GIS6116: Geographic Information Systems Analysis
- SUR5365: Digital Mapping
- SUR5385: Remote Sensing Applications
- SUR5386: Image Processing for Remote Sensing
- SUR5391C: Geomatics: Spatial Foundations of GIS
- SUR5425: Cadastral Information Systems
- SUR5525: Least Squares Adjustment Computations
- SUR6375: Terrain Analysis and Mapping
- SUR6395: Topics in Geographic Information Systems
- SUR6427: Land Tenure and Administration
- SUR6535: GPS-INS Integration
- SUR6905: Special Problems in Geomatics
- SUR6934: Topics in Geomatics

Fisheries and Aquatic Sciences Program Courses

- FAS5203C: Biology of Fishes
- FAS5255C: Diseases of Warmwater Fish
- FAS5276C: Field Ecology of Aquatic Organisms
- FAS5335C: Applied Fisheries Statistics
- FAS5901: Scientific Thinking in Ecology
- FAS6154: Aquatic Invertebrate Ecological Physiology
- FAS6171: Applied Phycology
- FAS6256: Fish and Aquatic Invertebrate Histology
- FAS6272: Marine Ecological Processes
- FAS6337C: Fish Population Dynamics
- FAS6339C: Advanced Quantitative Fisheries Assessment
- FAS6355C: Fisheries Management
- FAS6905: Individual Study
- FAS6910: Supervised Research
- FAS6932: Special Topics in Fisheries and Aquatic Sciences
- FAS6933: Graduate Symposium
- FAS6935: Contemporary Problems in Fisheries and Aquatic Sciences
- FAS6940: Supervised Teaching
- FAS6971: Research for Master's Thesis
- FAS7979: Advanced Research
- FAS7980: Research for Doctoral Dissertation

Forest Resources and Conservation Program Courses

- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- FNR 6564: Ecohydrology
- FOR 5157: Ecosystem Restoration Principles and Practice
- FOR 5159: Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 5161: Forest Productivity and Health
- FOR 5435: Forest Information Systems
- FOR 5615: Forest Conservation and Management Policies and Issues
- FOR 5625: Forest Water Resources Management
- FOR 5756: Non-Timber Forest Products
- FOR 6005: Conservation Behavior
- FOR 6154: Analysis of Forest Ecosystems
- FOR 6156: Simulation Analysis of Forest Ecosystems
- FOR 6164: Silviculture: Concepts and Application
- FOR 6170: Tropical Forestry
- FOR 6172C: Tropical Forestry Field Course
- FOR 6215: Fire Paradigms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6340: Physiology of Forest Trees
- FOR 6345C: Plant Water Relations Techniques
- FOR 6543: Natural Resource Economics and Valuation
- FOR 6628: Community Forest Management
- FOR 6665: Landscape Planning for Ecotourism
- FOR 6905: Research Problems in Forest Resources and Conservation
- FOR 6910: Supervised Research
- FOR 6933: Seminar
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 6940: Supervised Teaching
- FOR 6971: Research for Master's Thesis
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6555: Introduction to Quantitative Genetics

Horticultural Sciences Departmental Courses

- ALS 5934: Graduate Professional Development Seminar
- HOS 5085C: Principles of Postharvest Horticulture
- HOS 5115C: Horticultural Plant Morphology and Identification
- HOS 5242: Genetics & Breeding of Vegetable Crops
- HOS 5306: Molecular Biology of Plant Hormones
- HOS 5330: Postharvest Technologies for Horticultural Crops
- HOS 5432: Advanced Nutritional Management of Ornamental Crops
- HOS 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding
- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6545: Advanced Citriculture I
- HOS 6546: Advanced Citriculture II
- HOS 6905: Problems in Horticultural Science
- HOS 6910: Supervised Research
- HOS 6931: Horticultural Science Seminar
- HOS 6932: Special Topics
- HOS 6940: Supervised Teaching
- HOS 6941: Practicum in Horticultural Science
- HOS 6971: Research for Master's Thesis
- HOS 7979: Advanced Research
- HOS 7980: Research for Doctoral Dissertation
- ORH 5026C: Advanced Annual and Perennial Gardening
- ORH 5086: Advanced Golf and Sports Turf Management
- ORH 5282: Orchid Biology and Culture
- ORH 5322C: Palm Biology and Culture
- ORH 5817C: Advanced Florida Native Landscaping
- ORH 7941: Doctor of Plant Medicine: Internship in Environmental Horticulture
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PLS 5222C: Propagation of Horticultural Crops
- PLS 5241C: Advanced Plant Micropropagation
- PLS 5405: Advanced Composting Technology

Plant Pathology Departmental Courses

- PLP 5005C: General Plant Pathology
- PLP 5102: Theory and Practice of Plant Disease Control
- PLP 5115C: Citrus Pathology
- PLP 5155: Microbiological Control of Plant Diseases and Weeds
- PLP 6656C: Fungal Biology
- PLP 6223C: Viral Pathogens of Plants
- PLP 6241C: Bacterial Plant Pathogens
- PLP 6262C: Fungal Plant Pathogens
- PLP 6291: Plant Disease Diagnosis
- PLP 6303: Host-Parasite Interactions II
- PLP 6404: Epidemiology of Plant Disease
- PLP 6502: Host-Parasite Interactions I
- PLP 6621C: Pop Genetics Microbes
- PLP 6905: Problems in Plant Pathology
- PLP 6910: Supervised Research
- PLP 6921: Colloquium in Principles of Plant Pathology
- PLP 6932: Seminar in Plant Pathology
- PLP 6940: Supervised Teaching
- PLP 6942: Professional Internship in Plant Disease Clinic
- PLP 6971: Research for Master's Thesis
- PLP 7946: Plant Pathology Internship
- PLP 7979: Advanced Research
- PLP 7980: Research for Doctoral Dissertation

Soil and Water Science Departmental Courses

- ALS 5027: Reusable Learning Objects
- ALS 5155: Global Agroecosystems
- CWR 6537: Contaminant Subsurface Hydrology
- SWS 5050: Soils for Environmental Professionals
- SWS 5050L: Soils for Environmental Professionals Laboratory
- SWS 5115: Environmental Nutrient Management
- SWS 5132: Tropical Soil Management
- SWS 5182: Earth System Analysis
- SWS 5208: Sustainable Agricultural and Urban Land Management
- SWS 5234: Environmental Soil, Water, and Land Use
- SWS 5235: South Florida Ecosystems
- SWS 5224: Environmental Biogeochemistry
- SWS 5246: Water Resource Sustainability
- SWS 5247: Hydric Soils
- SWS 5248: Wetlands and Water Quality
- SWS 5305C: Soil Microbial Ecology
- SWS 5308: Ecology of Waterborne Pathogens
- SWS 5406: Soil and Water Chemistry
- SWS 5424C: Soil Chemical Analysis
- SWS 5551: Soils, Water, and Public Health
- SWS 5605C: Environmental Soil Physics
- SWS 5716C: Environmental Pedology
- SWS 5721C: GIS in Land Resource Management
- SWS 5805: Environmental Soil and Water Monitoring Techniques
- SWS 6134: Soil Quality
- SWS 6136: Soil Fertility
- SWS 6161: Bioavailability of Soil Nutrients
- SWS 6262: Soil Contamination and Remediation
- SWS 6323: Advanced Microbial Ecology
- SWS 6325: Rhizosphere Biochemistry
- SWS 6366: Biodegradation and Bioremediation
- SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6722: Soil-Landscape Modeling
- SWS 6905: Special Problems
- SWS 6910: Supervised Research
- SWS 6931: Seminar
- SWS 6932: Topics in Soils
- SWS 6940: Supervised Teaching
- SWS 6971: Research for Master's Thesis
- SWS 7979: Advanced Research
- SWS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Molecular and Cellular Biology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Plant Molecular and Cellular Biology Department](#)

Plant Molecular and Cellular Biology Program Information

Director: Gloria A. Moore

Graduate Coordinator: Matias Kirst

Plant Molecular and Cellular Biology (PCMB) is an interdisciplinary and interdepartmental graduate degree program that emphasizes understanding the molecular and cellular mechanisms that mediate plant development, adaptation, and evolution. Students can pursue an M.S. or a Ph.D. degree through the PCMB program. All students complete core courses in Advanced Genetics, Plant Molecular Biology and Genomics, Plant Cellular and Developmental Biology, and Plant Biochemistry. In addition to the core classes, students can select from a variety of courses in biochemistry, molecular biology, physiology, breeding, genetics, evolution, microbiology, and plant pathology.

New students are exposed to a variety of faculty and experimental systems while they rotate through several laboratories during their first two semesters before selecting an adviser and dissertation research area. Both M.S. and Ph.D. students take four required courses: [PCB 5065](#) Advanced Genetics, [PCB 5530](#) Plant Molecular Biology and Genomics, [PCB 6528](#) Plant Cell and Developmental Biology and [BOT 6935](#) Plant Biochemistry, as well as journal colloquium classes ([PCB 7922](#) Journal Colloquium). Additional elective courses are taken after approval by the student's supervisory committee. For additional information see <http://pmcb.ifas.ufl.edu>.

Successful candidates should have a strong interest in plant molecular and cellular mechanisms controlling development, metabolism, adaptation, and evolution. Applicants typically have a B.S. or M.S. in the agricultural, forestry, biological or chemical sciences with advanced undergraduate coursework in genetics, molecular and cellular biology, and biochemistry. However, outstanding students from a broad range of science disciplines are actively considered.

Degrees Offered with a Major in Plant Molecular and Cellular Biology

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Molecular and Cellular Biology Courses

- BOT 6935: Special Topics
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6910: Supervised Research
- PCB 6937: Special Topics in Plant Molecular and Cellular Biology
- PCB 6971: Research for Master's Thesis
- PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Plant Pathology

College

[College of Agricultural and Life Sciences](#)

Department/School

[Plant Pathology Department](#)

Plant Pathology Program Information

A student may pursue studies in one of several basic areas of plant pathology. These areas include fungal plant pathology, plant bacteriology, plant virology, diagnostics, control, and also molecular and biochemical aspects of host-pathogen systems, biological control of pathogens and weeds, epidemiology, etiology, genetics of host-pathogen systems, soil microbiology, and pathogen taxonomy. In Florida, the variety of cultivated plants, coupled with an environment ideal for plant disease development, offers the student opportunities to study diseases of many crops as they develop. First-hand knowledge can be gained of diseases of field, fruit, ornamental, pasture, range, turf, and vegetable crops in temperate, subtropical, and tropical environments. Students who anticipate study in plant pathology at the University of Florida should include in their undergraduate programs training in botany, chemistry (through biochemistry), genetics, and microbiology.

Courses in nematology are offered by the Department of Entomology and Nematology.

Degrees Offered with a Major in Plant Pathology

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Pathology Departmental Courses

- PLP 5005C: General Plant Pathology
- PLP 5102: Theory and Practice of Plant Disease Control
- PLP 5115C: Citrus Pathology
- PLP 5155: Microbiological Control of Plant Diseases and Weeds
- PLP 6656C: Fungal Biology
- PLP 6223C: Viral Pathogens of Plants
- PLP 6241C: Bacterial Plant Pathogens
- PLP 6262C: Fungal Plant Pathogens
- PLP 6291: Plant Disease Diagnosis
- PLP 6303: Host-Parasite Interactions II
- PLP 6404: Epidemiology of Plant Disease
- PLP 6502: Host-Parasite Interactions I
- PLP 6621C: Pop Genetics Microbes
- PLP 6905: Problems in Plant Pathology
- PLP 6910: Supervised Research
- PLP 6921: Colloquium in Principles of Plant Pathology
- PLP 6932: Seminar in Plant Pathology
- PLP 6940: Supervised Teaching
- PLP 6942: Professional Internship in Plant Disease Clinic
- PLP 6971: Research for Master's Thesis
- PLP 7946: Plant Pathology Internship
- PLP 7979: Advanced Research
- PLP 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Soil and Water Science

College

[College of Agricultural and Life Sciences](#)

Department/School

[Soil and Water Science Department](#)

Soil and Water Science Program Information

The Soil and Water Science Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (<http://soils.ifas.ufl.edu/distance>). Requirements for the M.S. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog

Students can also develop specializations in several interdisciplinary areas including biogeochemistry, ecology, geographic information systems, hydrologic science, tropical agriculture, turfgrass management, and wetland science. The Department emphasizes (but is not limited to) the following research areas:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

Interests of the student and faculty, the facilities, and funding available will determine the student's research area. A specific program of study is prepared by an appointed supervisory committee for each student. Students will present a thesis or dissertation in their major field (M.S. thesis option and Ph.D.). In addition, Ph.D. candidates must pass a qualifying examination covering several areas of soil and water science and related fields.

Prerequisites: Students who expect to do graduate work in the Soil and Water Science Department should hold a bachelor's degree from an accredited college or university with a major in soil and water science or the equivalent background in another field of science. Graduate students should have backgrounds in biology, chemistry, physics, and mathematics and knowledge of basic soil and water science.

For more information, please see our website: <http://soils.ifas.ufl.edu>.

Degrees Offered with a Major in Soil and Water Science

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Agroecology

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Soil and Water Science Departmental Courses

- ALS 5027: Reusable Learning Objects
- ALS 5155: Global Agroecosystems
- CWR 6537: Contaminant Subsurface Hydrology
- SWS 5050: Soils for Environmental Professionals
- SWS 5050L: Soils for Environmental Professionals Laboratory
- SWS 5115: Environmental Nutrient Management
- SWS 5132: Tropical Soil Management
- SWS 5182: Earth System Analysis
- SWS 5208: Sustainable Agricultural and Urban Land Management
- SWS 5234: Environmental Soil, Water, and Land Use
- SWS 5235: South Florida Ecosystems
- SWS 5224: Environmental Biogeochemistry
- SWS 5246: Water Resource Sustainability
- SWS 5247: Hydric Soils
- SWS 5248: Wetlands and Water Quality
- SWS 5305C: Soil Microbial Ecology
- SWS 5308: Ecology of Waterborne Pathogens
- SWS 5406: Soil and Water Chemistry
- SWS 5424C: Soil Chemical Analysis
- SWS 5551: Soils, Water, and Public Health
- SWS 5605C: Environmental Soil Physics
- SWS 5716C: Environmental Pedology
- SWS 5721C: GIS in Land Resource Management
- SWS 5805: Environmental Soil and Water Monitoring Techniques
- SWS 6134: Soil Quality
- SWS 6136: Soil Fertility
- SWS 6161: Bioavailability of Soil Nutrients
- SWS 6262: Soil Contamination and Remediation
- SWS 6323: Advanced Microbial Ecology
- SWS 6325: Rhizosphere Biochemistry
- SWS 6366: Biodegradation and Bioremediation
- SWS 6448: Biogeochemistry of Wetlands and Aquatic Systems
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6722: Soil-Landscape Modeling
- SWS 6905: Special Problems
- SWS 6910: Supervised Research
- SWS 6931: Seminar
- SWS 6932: Topics in Soils
- SWS 6940: Supervised Teaching
- SWS 6971: Research for Master's Thesis
- SWS 7979: Advanced Research
- SWS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

Wildlife Ecology and Conservation

College

[College of Agricultural and Life Sciences](#)

Department/School

[Wildlife Ecology and Conservation Department](#)

Wildlife Ecology and Conservation Program

The Department of Wildlife Ecology and Conservation offers a breadth of graduate programs that are designed to prepare students for professional employment in conservation of natural resources in a changing world. WEC faculty teach, conduct research, and provide service and extension in the following areas: avian ecology, behavioral ecology, community ecology, conservation biology, conservation education, conservation genetics, ecosystem management, environmental interpretation, habitat restoration, herpetofaunal ecology, human dimensions of wildlife management, international conservation, introduced species, landscape ecology, mammalian behavior, marine mammal ecology, plant ecology, population biology, range ecology, systems ecology, tropical conservation, urban wildlife relations, wetlands ecology, wildlife diseases, and wildlife management.

The **Doctor of Philosophy (PhD) program** in Wildlife Ecology and Conservation serves graduate students conducting advanced, original studies of fundamental ecological and social sciences (e.g., ecosystem, community, landscape ecology, human dimensions), usually with applications to further society's understanding of wildlife ecology and to improve conservation of wildlife resources.

The **Master of Science (MS) thesis program** in Wildlife Ecology and Conservation: (a) prepares graduate students for entry-level professional positions in areas of wildlife biology and ecology, natural resource management, conservation, and (b) provides a solid scientific foundation for further graduate work leading to the PhD degree.

The **Master of Science, non-thesis (MS) program** in Wildlife Ecology and Conservation provides advanced training for students in technical and professional aspects of wildlife management, conservation, and public education, emphasizing written and oral communication of scientific information.

For more information, please see our website: <http://www.wec.ufl.edu>.

Degrees Offered with a Major in Wildlife Ecology and Conservation

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- WIS 5323C: Impact of Diseases on Wildlife Population
 - WIS 5376
- WIS 5496: Research Design in Wildlife Ecology
- WIS 5521: Plant-Animal Interactions
- WIS 5555C: Conservation Biology
- WIS 6444: Advanced Wetlands Ecology
- WIS 6455: Wildlife Population Ecology
- WIS 6466: Wildlife Population Modeling
- WIS 6468C: Pattern and Process in Landscape Ecology
- WIS 6525: Environmental Interpretation
- WIS 6544: Administration in Natural Resources
- WIS 6575: Mammalian Carnivores: Conservation and Management Issues
- WIS 6578: Human Dimensions of Biological Conservation
- WIS 6905: Research Problems in Wildlife and Range Sciences
- WIS 6910: Supervised Research
- WIS 6933: Seminar
- WIS 6934: Topics in Wildlife and Range Sciences
- WIS 6940: Supervised Teaching
- WIS 6971: Research for Master's Thesis
- WIS 6543: Wildlife and Agriculture
- WIS 7979: Advanced Research
- WIS 7980: Research for Doctoral Dissertation

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

College of the Arts

Dean: L. Lavelli

Complete faculty listings: [Follow this link.](#)

The arts program at UF began in the 1920s to serve the state of Florida's needs. Meeting these needs over the past 80 years has propelled the college to excel on a national and international level and has defined its mission to provide instruction for students seeking professional careers in the arts. In addition to providing rich educational experiences and programs in the arts, the college brings national and international recognition to the university through the high-level professionalism associated with the faculty and alumni, and the competence of students and graduates.

For more information about the College of the Arts, please see our website: <http://www.arts.ufl.edu>

[Departments and Programs within the College of the Arts](#)

[College of the Arts Courses](#)

Other

Art

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art Program

Master of Fine Arts degree: The school offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. Enrollment is competitive and limited. Candidates for admission should have adequate undergraduate training in art. Deficiencies may be corrected before beginning graduate study. Applicants must submit a portfolio for admission consideration (for comprehensive admission information: <http://www.arts.ufl.edu/programs/grad.aspx>). A minimum of 3 years residency is normally needed to complete the requirements for this degree, which for studio students culminates with an M.F.A. exhibition.

The M.F.A. requires a minimum of 60 credit hours: 24 hours must be in an area of specialization. Normal course requirements include:

- 12 hours of studio electives outside the area of specialization
- 6 hours of art history electives
- 3 hours of outside SA+AH electives (research/discipline appropriate)
- 6 hours of electives
- 6 hours of individual project or thesis research.

Although the M.F.A. is a thesis degree, students usually produce a creative project in lieu of thesis. Students should see the graduate program adviser for the School's requirements for the creative project.

Degrees Offered with a Major in Art

Master of Fine Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900

- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Art Education

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art Education Program

Master of Arts degree in Art Education: The School offers the M.A. in art education. In addition to meeting requirements of the Graduate School for admission, prospective students should:

- Hold a degree in studio art, art history, design, or art education
- Send up to 10 images of original works of art (on CD or in slide form) and a research paper, article, or other sample of academic writing
- Official transcripts from all colleges/universities previously attended
- Statement of professional goals for attending graduate school and earning an M.A. degree in art education
- Current Curriculum Vitae or Resume
- Submit three current letters of recommendation.

The M.A. in art education requires a minimum of 36 credit hours. [ARE 6049](#), [ARE 6148](#), and [ARE 6641](#) are required. The basic plan of study includes 3 credits of an approved art education elective; 9 credits in studio courses; 3 credits in art history; 6 credits in art history, studio, art education, or education electives; 3 credits of [ARE 6746](#); and 3 credits of [ARE 6971](#) or [ARE 6973](#). To be admitted to candidacy, students must pass a comprehensive examination at the beginning of the second year. The program culminates in an oral examination on the thesis or project in lieu of thesis.

Degrees Offered with a Major in Art Education

Master of Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education

- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Art History

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Art History Program

Master of Arts and Doctor of Philosophy degrees in Art History: The School offers graduate programs leading to the M.A. and Ph.D. degrees. For complete details of the M.A. and Ph.D. degree requirements, see the Director of Graduate Studies—Art History. Art History students may participate in courses offered by the State University System's programs in Paris, London, and Florence. Other study-abroad programs may be approved by the director of graduate studies.

For the M.A. degree, the School offers areas of emphasis in Ancient, Medieval, Renaissance/Baroque, Modern, and non-Western art history (including African, Asian, and Oceanic). A minimum of 36 credit hours is required: [ARH 5816](#) (3 credits), 27 hours of course work, and [ARH 6971](#) (6 credits). Required course work includes a minimum of 15 hours with 5 different art history Graduate Faculty (at least 12 hours of this course work must be graduate-level seminars). Nine credits may be taken in related areas with the graduate program adviser's approval. Reading proficiency in a foreign language appropriate to the major area of study must be demonstrated before thesis research is begun. Language courses cannot apply toward degree credit.

For the Ph.D. degree, the School offers the same areas of specialization as for the M.A. degree. Up to 30 credits from the M.A. degree may apply toward the 90 credit Ph.D. degree. A program of 60 credit hours beyond the M.A. degree is required. Core courses will consist of a minimum of 30 hours in art history:

- 18 hours in a primary area (5000-level or above)
- 9 hours in a secondary area (5000-level or above)
- 3 hours of theory/methodology of art history (if [ARH 5816](#) or its equivalent has not been taken as part of the M.A.)
- An additional 12 hours of outside electives taken in other schools or departments are required in a discipline(s) related to the primary area of study
- Finally, 27 hours of dissertation research and writing is required.

By the end of the second semester or equivalent full-time study, students should form their supervisory committee that must include a minimum of four Graduate Faculty members; one of whom must agree to serve as primary dissertation adviser and supervisory committee chair. The supervisory committee will also act as the qualifying examination committee. Normally students will take the qualifying examination during the spring term of the third year in residence. The examination is both written and oral. It will cover the major and minor art history areas of emphasis as well as the student's preliminary formulation of a dissertation topic and provisional statement of the approaches to that topic as expressed in the dissertation prospectus. On successful completion of the qualifying examination, the approval by the supervisory committee of the dissertation prospectus, and fulfilling all other course and language requirements, the student makes formal application for a change of status to Ph.D. candidacy. Normally, a student will be expected to present the completed dissertation and defend it at an oral defense conducted by the supervisory committee by the end of the sixth year in the program. For Ph.D. students, reading knowledge of two research languages other than English must be demonstrated by the end of the second year of course work, or by the end of the first semester in the case of transfer students. Language courses are not applicable toward degree credit.

Degrees Offered with a Major in Art History

Doctor of Philosophy

Master of Arts

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art
- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar

- ARH 6694: Nineteenth-Century Art–Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Arts in Medicine

College

[College of the Arts](#)

Arts in Medicine Program Information

Center for Arts in Medicine Director: Jill Sonke

Center for Arts in Medicine Graduate Advisor: Dylan Klemptner

The Center for Arts in Medicine is committed to advancing research, education, and practice in the arts in healthcare, locally and globally. The Center offers an online Master of Arts in Arts in

Medicine. Minimum requirements for the degree are available in the [Graduate Degrees](#) section of this catalog.

Prerequisites and Requirements: Admission to the MA in Arts in Medicine program requires a bachelor's degree in an arts, health, or related field of study, a GRE exam score or previous graduate degree, and completion of the Introduction to the Arts in Healthcare course at UF, or completion of an Arts in Healthcare Summer Intensive, or a minimum of one year of professional experience as an artist or administrator in the field of Arts in Medicine. Requirements of the degree include completion of 35 credits of coursework with a 3.0 or higher GPA.

Commitment of time: The MA in Arts in Medicine is designed to be completed in two years when students are enrolled in one class at a time (with one 8-week semester with two courses). Students should expect to dedicate 16 hours per week to each 8-week 3-credit hour course.

For more information, please see our website: <http://www.arts.ufl.edu/cam>.

Degrees Offered with a Major in Arts in Medicine

Master of Arts

Arts in Medicine Courses

Core Curriculum

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- PHC 6104: Evidence-Based Management of Public Health Programs

Practicum

- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum

Electives

- ANG 6930: Special Topics in Anthropology
- GMS 6822: Measuring and Analyzing Health Outcomes II
- HSA 6114: U.S. Health Care System
- HUM 6930: Special Topics in Fine Arts
- MMV 6651: Vocal Pedagogy
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- THE 6905: Individual Study

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Digital Arts and Sciences (Arts)

College

[College of the Arts](#)

Department/School

[Digital Worlds Institute](#)

Digital Arts and Sciences (Arts) Program Information

The Master of Arts in Digital Arts & Sciences (DAS) degree seeks to allow students from diverse academic backgrounds the opportunity to develop fluency in the technologies, design practices and collaborative interdisciplinary teamwork increasingly required by the media, communications and entertainment industries. Graduates holding the M.A. in DAS degree would typically seek employment in the creative services sector, applying digital techniques and technologies in a variety of professions. Opportunities range from traditional cinema to interactive games; from broadcast media to online international networks to emergent industries.

Although this is a thesis degree, students usually produce a creative project in lieu of thesis. Students should see the graduate coordinator for the requirements for the creative project, which are also provided in the DAS Student Handbook.

Students seeking admission are expected to have an undergraduate background including:

- A degree in one of the fine arts or liberal arts
- A body of work that demonstrates accomplishment in the intended area
- A body of work that can clearly be enhanced with skills to be acquired in the DAS program.

Deficiencies may be corrected before beginning graduate study. In addition to appropriate academic credentials and prior scholastic achievement, admission into the program requires a well-constructed Statement of Purpose and media-related support material (i.e. samples of design, programming, video, web, writing, etc.) that demonstrates both prior interest and/or achievement in New Media/Digital Arts & Sciences.

Degrees Offered with a Major in Digital Arts and Sciences

Master of Arts

Digital Worlds Departmental Courses

- DIG 5555C: Digital Media Projection Design I
- DIG 5931C: Special Topics
- DIG 6027C: Interactive Storytelling
- DIG 6028: Roots of Digital Culture
- DIG 6050C: Entertainment Technology
- DIG 6125C: Digital Design & Visualization
- DIG 6126C: Interaction Design
- DIG 6256C: Audio Design For Digital Production
- DIG 6358C: APPLIED 3D MODELING
- DIG 6556C: Digital Media Projection Design II
- DIG 6589C: Digital Portfolio
- DIG 6719: Videogame Theory and Analysis
- DIG 6744C: Movement, Media and Machines
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- DIG 6751C: Protocols for Multimedia Interfaces
- DIG 6788C: Digital Production & Game Design
- DIG 6840C: Interdisciplinary Research Seminar in Digital Arts & Sciences
- DIG 6850C: Digital Arts & Sciences Convergence
- DIG 6906: Independent Study - Graduate Level
- DIG 6950C: Digital Performance Production
- DIG 6971: Research for Master's Thesis
- DIG 6973: Capstone Project in Lieu of Thesis
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Museology

College

[College of the Arts](#)

Department/School

[School of Art and Art History](#)

Museology Program Information

Master of Arts degree in Museology (Museum Studies): The School offers this interdisciplinary program that consists of both academic and practical work. The curriculum allows students to do graduate work in a disciplinary emphasis (art history, anthropology, history, education, or the natural sciences, for example) and at the same time complete a concentrated study in professional museum practice. The M.A. degree in museology requires 48 credit hours including

- 15 credits of museum studies courses (museology seminar, 3 credits; collections management, 3 credits; museum education, 3 credits; exhibitions, 3 credits; special topics, 3 credits)
- 15 graduate credits in a disciplinary focus
- 6 credits of internship
- 6 credits of electives
- 6 credits of individual credit.

Several on-campus sites provide the program with laboratories for training students in museum work, including the University Galleries, Harn Museum of Art, Florida Museum of Natural History, and the gallery at the Reitz Union. Students must complete a 6-credit internship of at least 320 hours at an approved museum. In this experience, students undertake specific projects in which they gain first-hand experience in museum work. The Harn Museum of Art or the Florida Museum of Natural History may be able to oversee a few interns, but students are encouraged to apply for internships at other U.S. institutions or abroad.

A project-in-lieu-of-thesis (or thesis) is selected, researched, and carried out under the direction of a supervisory committee.

Degrees Offered with a Major in Museology

Master of Arts

concentration in Historic Preservation

without a concentration

School of Art and Art History Departmental Courses

- ARE 6049: History of Teaching Art
- ARE 6148: Curriculum in Teaching Art
- ARE 6246C: Principles of Teaching Art
- ARE 6247C: Teaching Art: The Study of Practice
- ARE 6386: Teaching Art in Higher Education
- ARE 6641: Issues in Art Education
- ARE 6746: Methods of Research in Art Education
- ARE 6905: Individual Study
- ARE 6910: Capstone Project
- ARE 6933: Special Topics in Art Education
- ARE 6944: Internship in Teaching Art
- ARE 6971: Research for Master's Thesis
- ARE 6973: Individual Project
- ARH 5357: French Art of the Ancien Regime: 1680-1780
- ARH 5420: Art in the Age of Revolution
- ARH 5440: Beginnings of Modernism
- ARH 5527: Arts of Central Africa
- ARH 5528: Art of West Africa
- ARH 5529: Clothing and Textiles in Africa
- ARH 5655: Indigenous American Art

- ARH 5667: Colonial Andean Art
- ARH 5816: Methods of Research and Bibliography
- ARH 5877: Gender, Representation, and the Visual Arts: 1600-1900
- ARH 5905: Individual Study
- ARH 6141: Greek Art Seminar
- ARH 6292: Medieval Art Seminar
- ARH 6394: Renaissance Art Seminar
- ARH 6422: Beginnings of Modernism. Realism to Post-Impressionism 1848-1890
- ARH 6477: Eighteenth-Century European Art Seminar
- ARH 6481: Contemporary Art Seminar
- ARH 6496: Modern Art Seminar
- ARH 6596: Chinese Art Seminar
- ARH 6597: African Art Seminar
- ARH 6654: Pre-Columbian Art Seminar
- ARH 6666: Colonial Latin American Art Seminar
- ARH 6694: Nineteenth-Century Art Seminar
- ARH 6696: American Art Seminar
- ARH 6797: Museum Education
- ARH 6836: Exhibitions Seminar
- ARH 6895: Collections Management Seminar
- ARH 6900: Independent Study in Museology
- ARH 6910: Supervised Research
- ARH 6911: Advanced Study
- ARH 6914: Independent Study in Ancient Art History
- ARH 6915: Independent Study in Medieval Art History
- ARH 6916: Independent Study in Renaissance and Baroque Art History
- ARH 6917: Independent Study in Modern Art History
- ARH 6918: Independent Study in Non-Western Art History
- ARH 6930: Special Topics in Museology
- ARH 6938: Seminar in Museum Studies
- ARH 6941: Supervised Internship
- ARH 6946: Museum Practicum
- ARH 6948: Gallery Practicum
- ARH 6971: Research for Master's Thesis
- ARH 7979: Advanced Research
- ARH 7980: Research for Doctoral Dissertation
- ART 5674C: Digital Fabrication
- ART 5905C: Directed Study
- ART 5930C: Special Topics
- ART 6410C: Printmaking Seminar: Mastering Process and Content
- ART 6411C: Printmaking Seminar: Transformation and Change
- ART 6412C: Printmaking Seminar: Ideation, Studies, and Completed Works
- ART 6413C: Printmaking Seminar: Interdisciplinary Studio
- ART 6671C: Advanced Experiments in Digital Art
- ART 6672: Hypermedia
- ART 6673C: Video Art
- ART 6675C: Digital Art and Animation
- ART 6691: Digital Art Studio
- ART 6794C: Vessel Aesthetic 1
- ART 6795C: Vessel Aesthetic 2
- ART 6797C: Ceramic Sculpture 2
- ART 6835C: Research in Methods and Materials of the Artist
- ART 6849C: Reactive Environments
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Art + Technology Workshop
- ART 6926C: Advanced Study I
- ART 6927C: Advanced Study II
- ART 6928C: Advanced Study III
- ART 6929C: Advanced Study IV
- ART 6933: Area Methods: Rotating Topics
- ART 6971: Research for Master's Thesis
- ART 6973C: Individual Project
- DIG 6746C: Graduate Seminar in Sensors and Electronics
- IDC 6505C: Programming for Artists

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Music

College

[College of the Arts](#)

Department/School

[Music Department](#)

Music Program Information

The Master of Music (M.M.) degree is offered in music or music education. The music program offers the following concentrations: choral conducting, composition, electronic music, ethnomusicology, instrumental conducting, music education, music history and literature, music theory, performance, and sacred music. The M.M. degree prepares students for careers as teachers in studios, schools, and universities; performers; music historians; music critics; church musicians; composers; conductors; and accompanists.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/music>

Degrees Offered with a Major in Music

Doctor of Philosophy

without a concentration

concentration in Composition

concentration in Music History and Literature

Master of Music

without a concentration

concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Electronic Music

optional second concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Ethnomusicology

concentration in Ethnomusicology

optional second concentration in Choral Conducting

optional second concentration in Composition

optional second concentration in Electronic Music

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

concentration in Instrumental Conducting

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music Education

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Sacred Music

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music History and Literature

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Music Theory

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Performance

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Performance

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Sacred Music

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

concentration in Sacred Music

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performace

optional second concentration in Piano Pedagogy

optional second concentration in Music Education

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Music Departmental Courses

- DIG 6288: Music and Sound Design for Digital Media
- MUC 5315: Introduction to Electroacoustic Music
- MUC 6444: Composition of Electronic Music
- MUC 6445: Electroacoustic Music Composition: Digital I
- MUC 6446: Electroacoustic Music Composition--Digital II
- MUC 6900: Secondary Graduate Composition
- MUC 6930: Graduate Composition
- MUC 6932: Composition Seminar
- MUC 7447: Advanced Seminar in Electroacoustic Music
- MUC 7931: Advanced Graduate Composition
- MUC 7938: Seminar in Digital Sound Processing, Control, and Composition
- MUE 6080: Historical and Philosophical Foundations of Music Education
- MUE 6385: Music in Higher Education
- MUE 6399: Creative Thinking in Music
- MUE 6444: Materials and Methods of String Class Teaching
- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- MUE 6696: Technology Assisted Music Learning
- MUE 6747: Assessing Music Learning
- MUE 6785: Research in Music Education
- MUE 6790: Capstone Project for Music Education
- MUE 6931: Instructional Design in Music Education
- MUE 7746: Measurement and Evaluation of Music
- MUE 7938: Music Education Seminar
- MUG 6105: Graduate Conducting
- MUG 7106: Advanced Graduate Conducting
- MUH 5219: Graduate Music History Review
- MUH 5505: Introduction to Ethnomusicology
- MUH 5684: Introduction to Historical Musicology
- MUH 6526: American Vernacular Music
- MUH 6545: The Guitar in Latin American Culture
- MUH 6548: Seminar in Caribbean Music
- MUH 6549: Seminar in Brazilian Music
- MUH 6635: Seminar in American Music
- MUH 6665: History of Opera
- MUH 6671: Seminar in Renaissance Music
- MUH 6672: Seminar in Baroque Music
- MUH 6673: Seminar in Classical Music
- MUH 6674: Seminar in Nineteenth-Century Music
- MUH 6675: Seminar in Twentieth-Century Music
- MUH 6931: Nationalism in Music
- MUH 6935: Special Topics in Music History

- MUH 7411: Medieval and Renaissance Notation
- MUH 7938: Musicology Seminar
- MUL 6435: String Literature
- MUL 6486: Piano Literature
- MUL 6495: Graduate Organ Literature
- MUL 6555: Survey of Wind Literature
- MUL 6565: Chamber Music Literature
- MUL 6645: Choral Literature
- MUN 6010: Graduate Ensemble
- MUN 6125: Concert Band
- MUN 6135: Symphonic Band
- MUN 6145: Symphonic Wind Ensemble
- MUN 6215: University Orchestra
- MUN 6315: University Choir
- MUN 6325: Women's Chorale
- MUN 6335: Men's Glee Club
- MUN 6445: Percussion Ensemble
- MUN 6495: Steel Drum Ensemble
- MUN 6496: World Music Ensemble
- MUN 6497: New Music Ensemble
- MUN 6715: Jazz Band
- MUR 6206: Survey of Hymnody
- MUR 6705: Sacred Music Literature
- MUS 5911: Directed Study
- MUS 6685: Psychology of Music
- MUS 6716: Methods of Musical Research and Bibliography
- MUS 6905: Projects and Problems
- MUS 6910: Supervised Research
- MUS 6940: Supervised Teaching
- MUS 6971: Research for Master's Thesis
- MUS 6973: Individual Project
- MUS 7656: Teaching Music and the Creative Process
- MUS 7905: Projects and Problems
- MUS 7979: Advanced Research
- MUS 7980: Research for Doctoral Dissertation
- MUT 6051: Graduate Music Theory Review
- MUT 6445: Advanced Counterpoint
- MUT 6531: Figured Bass and Continuo Performance
- MUT 6565: Late Nineteenth- and Twentieth-Century Styles
- MUT 6576: Contemporary Styles
- MUT 6617: Approaches to Theoretical Analysis in Music Education
- MUT 6624: Seminar in Set Theory
- MUT 6627: Seminar in Reductive Analysis
- MUT 6629: Analytical Techniques
- MUT 6751: Pedagogy of Music Theory
- MUT 6936: Music Theory Seminar
- MUT 7316: Advanced Orchestration
- MUT 7585: Seminar in Musical Style
- MUT 7760: History of Music Theory
- MKK 5156: Improvisational Keyboard Skills and Related Technology
- MKK 6605: Organ Pedagogy
- MKK 6651: Piano Pedagogy
- MKK 6661: Advanced Piano Pedagogy
- MO 6250: Secondary Music Performance
- MO 6460: Music Performance
- MO 7460: Music Performance
- MS 6651: String Pedagogy I
- MV 6651: Vocal Pedagogy

College of the Arts Courses

- HUM 5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM 5595: Arts in Medicine in Practice
- HUM 6340: Arts Advocacy and Public Policy
- HUM 6353: Arts in Medicine Professional Seminar
- HUM 6354: Arts in Medicine Advanced Professional Seminar
- HUM 6358: Arts in Medicine Capstone Proposal
- HUM 6359: Arts in Medicine Capstone
- HUM 6942: Arts in Medicine Graduate Practicum
- HUM 6944: Arts in Action: Consulting Project in Performing Arts Management

Music Education

College

[College of the Arts](#)

Department/School

[Music Department](#)

Music Education Program Information

The Master of Music (M.M.) degree is offered in music or music education. The music education program offers the following concentrations: choral conducting, composition, electronic music, ethnomusicology, instrumental conducting, music history and literature, music theory, performance, and piano pedagogy. The M.M. degree prepares students for careers as teachers in studios, schools, and universities; performers; music historians; music critics; church musicians; composers; conductors; and accompanists.

For more information, please see our website: <http://www.arts.ufl.edu/welcome/music>

Degrees Offered with a Major in Music Education

Doctor of Philosophy

Master of Music

Without a Concentration

Concentration in Choral Conducting

optional second concentration in Piano Pedagogy

optional second concentration in Composition

optional second concentration in Instrumental Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Electronic Music

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in Piano Pedagogy

optional second concentration in **Ethnomusicology**

Concentration in Ethnomusicology

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Piano Pedagogy**

Concentration in Instrumental Conducting

optional second concentration in Piano Pedagogy

optional second concentration in Composition

optional second concentration in Choral Conducting

optional second concentration in Music History and Literature

optional second concentration in Music Theory

optional second concentration in Performance

optional second concentration in Electronic Music

optional second concentration in Ethnomusicology

Concentration in Music History and Literature

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Composition**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Music Theory

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Piano Pedagogy**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Performance

optional second concentration in Choral Conducting

optional second concentration in **Piano Pedagogy**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in Composition

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

Concentration in Piano Pedagogy

optional second concentration in Choral Conducting

optional second concentration in **Composition**

optional second concentration in **Instrumental Conducting**

optional second concentration in **Music History and Literature**

optional second concentration in **Music Theory**

optional second concentration in **Performance**

optional second concentration in **Electronic Music**

optional second concentration in **Ethnomusicology**

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Music Departmental Courses

- DIG 6288: Music and Sound Design for Digital Media
- MUC 5315: Introduction to Electroacoustic Music
- MUC 6444: Composition of Electronic Music
- MUC 6445: Electroacoustic Music Composition: Digital I
- MUC 6446: Electroacoustic Music Composition--Digital II
- MUC 6900: Secondary Graduate Composition
- MUC 6930: Graduate Composition
- MUC 6932: Composition Seminar
- MUC 7447: Advanced Seminar in Electroacoustic Music
- MUC 7931: Advanced Graduate Composition
- MUC 7938: Seminar in Digital Sound Processing, Control, and Composition
- MUE 6080: Historical and Philosophical Foundations of Music Education
- MUE 6385: Music in Higher Education
- MUE 6399: Creative Thinking in Music
- MUE 6444: Materials and Methods of String Class Teaching
- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- MUE 6696: Technology Assisted Music Learning
- MUE 6747: Assessing Music Learning
- MUE 6785: Research in Music Education
- MUE 6790: Capstone Project for Music Education
- MUE 6931: Instructional Design in Music Education
- MUE 7746: Measurement and Evaluation of Music
- MUE 7938: Music Education Seminar

- MUG 6105: Graduate Conducting
- MUG 7106: Advanced Graduate Conducting
- MUH 5219: Graduate Music History Review
- MUH 5505: Introduction to Ethnomusicology
- MUH 5684: Introduction to Historical Musicology
- MUH 6526: American Vernacular Music
- MUH 6545: The Guitar in Latin American Culture
- MUH 6548: Seminar in Caribbean Music
- MUH 6549: Seminar in Brazilian Music
- MUH 6635: Seminar in American Music
- MUH 6665: History of Opera
- MUH 6671: Seminar in Renaissance Music
- MUH 6672: Seminar in Baroque Music
- MUH 6673: Seminar in Classical Music
- MUH 6674: Seminar in Nineteenth-Century Music
- MUH 6675: Seminar in Twentieth-Century Music
- MUH 6931: Nationalism in Music
- MUH 6935: Special Topics in Music History
- MUH 7411: Medieval and Renaissance Notation
- MUH 7938: Musicology Seminar
- MUL 6435: String Literature
- MUL 6486: Piano Literature
- MUL 6495: Graduate Organ Literature
- MUL 6555: Survey of Wind Literature
- MUL 6565: Chamber Music Literature
- MUL 6645: Choral Literature
- MUN 6010: Graduate Ensemble
- MUN 6125: Concert Band
- MUN 6135: Symphonic Band
- MUN 6145: Symphonic Wind Ensemble
- MUN 6215: University Orchestra
- MUN 6315: University Choir
- MUN 6325: Women's Chorale
- MUN 6335: Men's Glee Club
- MUN 6445: Percussion Ensemble
- MUN 6495: Steel Drum Ensemble
- MUN 6496: World Music Ensemble
- MUN 6497: New Music Ensemble
- MUN 6715: Jazz Band
- MUR 6206: Survey of Hymnody
- MUR 6705: Sacred Music Literature
- MUS 5911: Directed Study
- MUS 6685: Psychology of Music
- MUS 6716: Methods of Musical Research and Bibliography
- MUS 6905: Projects and Problems
- MUS 6910: Supervised Research
- MUS 6940: Supervised Teaching
- MUS 6971: Research for Master's Thesis
- MUS 6973: Individual Project
- MUS 7656: Teaching Music and the Creative Process
- MUS 7905: Projects and Problems
- MUS 7979: Advanced Research
- MUS 7980: Research for Doctoral Dissertation
- MUT 6051: Graduate Music Theory Review
- MUT 6445: Advanced Counterpoint
- MUT 6531: Figured Bass and Continuo Performance
- MUT 6565: Late Nineteenth- and Twentieth-Century Styles
- MUT 6576: Contemporary Styles
- MUT 6617: Approaches to Theoretical Analysis in Music Education
- MUT 6624: Seminar in Set Theory
- MUT 6627: Seminar in Reductive Analysis
- MUT 6629: Analytical Techniques
- MUT 6751: Pedagogy of Music Theory
- MUT 6936: Music Theory Seminar
- MUT 7316: Advanced Orchestration
- MUT 7585: Seminar in Musical Style
- MUT 7760: History of Music Theory
- MK 5156: Improvisational Keyboard Skills and Related Technology
- MK 6605: Organ Pedagogy
- MK 6651: Piano Pedagogy
- MK 6661: Advanced Piano Pedagogy
- MO 6250: Secondary Music Performance
- MO 6460: Music Performance
- MO 7460: Music Performance
- MS 6651: String Pedagogy I
- MV 6651: Vocal Pedagogy

Theatre

College

[College of the Arts](#)

Department/School

[School of Theatre and Dance](#)

Degrees Offered with a Major in Theatre

Master of Fine Arts

College of the Arts Courses

- HUM5357: Creativity and Health: Foundations of the Arts in Medicine
- HUM5595: Arts in Medicine in Practice
- HUM6340: Arts Advocacy and Public Policy
- HUM6353: Arts in Medicine Professional Seminar
- HUM6354: Arts in Medicine Advanced Professional Seminar
- HUM6358: Arts in Medicine Capstone Proposal
- HUM6359: Arts in Medicine Capstone
- HUM6942: Arts in Medicine Graduate Practicum
- HUM6944: Arts in Action: Consulting Project in Performing Arts Management

Theatre and Dance Departmental Courses

- ARC 6670: Lighting Design Seminar
- DAN 6436: Laban Movement Analysis
- DAA6757: Pilates Technique for the Dancer
- DAA6905: Graduate Dance Project
- DAN 6949: Dance Clinical Practice
- THE 5238: African-American Theatre History and Practice
- THE 5287: History of Decor and Architecture for the Stage
- THE 5910: Introduction to Graduate Study in Theatre
- THE 6265: Costume History
- THE 6525: History, Literature, and Criticism I
- THE 6526: History, Literature, and Criticism II
- THE 6565: Seminar in Creative Process
- THE 6905: Individual Study
- THE 6940: Supervised Teaching
- THE 6941: Internship
- THE 6950: Applied Theatre
- THE 6955: Summer Repertory Theatre
- THE 6971: Research for Master's Thesis
- THE 6973C: Project in Lieu of Thesis
- TPA5025: Lighting Design I
- TPA5047: Costume Design I
- TPA5067: Scene Design I
- TPA5072: Drawing and Rendering
- TPA5079: Graduate Scene Painting
- TPA5082: Advanced Theatre Graphics
- TPA5236: Costume Technologies Workshop
- TPA6005: Design I
- TPA6006: Design II
- TPA6009: Design Studio
- TPA6026: Lighting Design II
- TPA6048: Costume Design II
- TPA6054: Detail Design for Costume Designers
- TPA6069: Scene Design II
- TPA6235: Costume Construction
- TPA6237: Pattern Making: Flat Patternmaking
- TPA6243: Pattern Making: Draping
- TPA6258: Computer Drafting 2D
- TPA6357: Programming and Presentation for the Lighting Designer
- TPP 5234: Multi-Cultural Performance Workshop
- TPP 6115: Graduate Acting I: Modern Acting Theory and Practice
- TPP 6116: Graduate Acting II: Shakespeare and High Style
- TPP 6145: Graduate Acting III: Period Styles
- TPP 6149: Acting IV: Contemporary Realism

- TPP 6225: Professional Seminar: Acting
- TPP 6237: MFA Company Acting Workshop
- TPP 6266: Acting for the Camera
- TPP 6285: Voice and Movement I
- TPP 6286: MFA Voice and Speech II: Shakespeare and High Styles
- TPP 6297: The Alexander Technique I
- TPP 6298: The Alexander Technique II
- TPP 6299: The Alexander Technique III
- TPP 6385: Directing
- TPP 6515: Graduate Movement Training
- TPP 6536: Graduate Stage Combat
- TPP 6717: MFA Voice and Speech III: Period Styles
- TPP 6718: MFA Voice and Speech IV: Advanced Vocal Training for the Actor
- TPP 6946: Performance Practicum

Warrington College of Business Administration

Dean: Jamie Kraft

Complete faculty listings: [Follow this link.](#)

Graduate degrees offered by the Warrington College of Business Administration are the Doctor of Philosophy with major programs in business administration and in economics; the Master of Arts with major programs in economics, in international business, and in business administration with concentrations in insurance and marketing; the Master of Science with major programs in Information Systems and Operations Management (with a concentration in supply chain management), in finance, in management, in real estate, and in business administration, including concentrations in entrepreneurship, insurance, marketing and retail; the Master of Business Administration; and the Master of Accounting. Fields of concentration and requirements for the M.B.A. are given under [Graduate Degrees](#) of this catalog, as well as admission and degree requirements for the Ph.D., M.A., and M.S. degrees.

Master of Arts: The M.A. degree with a major in international business is designed to provide students with quantitative and application skills to be used in an international business setting. The program provides practical training with a brief study trip to a major international city, where students are required to participate actively in business tours and lectures. The students also have the opportunity to gain credits for the degree by studying at one or more foreign universities for a period of 2 weeks to 8 months.

Master of Science: The M.S. degree with a major in management targets students from nonbusiness backgrounds who would like to gain "core" business knowledge and application skills. Requirements span the traditional business disciplines to produce a sound knowledge base for students seeking a solid business foundation. Students are required to take such courses as accounting, finance, economics, entrepreneurship, management, marketing, organizational behavior, and statistics. Typical positions for graduates include managers, consultants, and analysts.

Doctor of Philosophy: For the Ph.D. in business administration, students must have a concentration in one of the following:

- Accounting
- Information Systems and Operation Management
- Finance
- Insurance
- Management
- Marketing
- Real estate and urban analysis.

Specific requirements for the various departments and specialties are given in the [Graduate Degrees](#) section in this catalog. (Requirements for the Ph.D. degree in economics are described under the *Economics* section of the catalog.) All candidates for the Ph.D. in business administration must satisfy the following general requirements:

Breadth requirement: All applicants for Ph.D. in the business administration program are expected to have completed prior business-related course work at either the advanced undergraduate or graduate level. Students entering without prior work are required to take a minimum of three graduate courses in at least two fields other than their chosen area of concentration. Most often, the appropriate courses will be found in the M.B.A. first-year core; the particular courses to be taken by a student will be decided in consultation with the student's academic adviser. After a student enters the Ph.D. program, the courses taken to satisfy the breadth requirement must be taken in the College of Business Administration.

Research foundations requirement: All students must complete a six-course research skills sequence that prepares them for scholarly research in their chosen area of concentration. Research foundations are defined as essential methodological tools (e.g., statistics, quantitative analysis) and/or substantive content domains (e.g., psychology, economics) outside the student's major field that are considered essential to conducting high quality research in the chosen field. The specific research skills required by each area of concentration can be found in the field descriptions in this Catalog.

Other requirements include satisfactory completion of graduate course work in the major field of concentration, as well as one or two minor fields designed to add depth to the student's research training. Minors are selected by the student in consultation with his or her advisory committee, and may be within or outside the College of Business Administration. Other requirements for the Ph.D. are given in the [Graduate Degrees](#) section of this catalog.

[Departments and Programs within Warrington College of Business Administration](#)

[Warrington College of Business Courses](#)

Other

Accounting

College

[Warrington College of Business Administration](#)

Department/School

[Fisher School of Accounting](#)

Accounting Program Information

Master of Accounting: Three variations of the Master of Accounting degree program are available. These allow students to select one of three tracks: Audit, Tax, and Generalist. Minimum admission requirements include an acceptable score on the Graduate Management Admission Test (GMAT), with a minimum score of 550 and completion of essays with a minimum score of 4. International students must submit a satisfactory score on the following: TOEFL (Test of English as a Foreign Language: paper-based=570, internet-based=86). Additional information, including minimum GPA standards for admission, may be viewed at <http://warrington.ufl.edu/accounting/academics/macc>.

Combined degree program: The recommended curriculum to prepare for a professional career in accounting is the 3/2 five-year program with a joint awarding of the Bachelor of Science in Accounting and Master of Accounting degrees upon completion of the 150-hour program. The entry point into the 3/2 program is the beginning of the senior year.

Traditional Master of Accounting program: Students who have already completed an undergraduate degree in accounting may enter the 1-year M.Acc. degree program which requires satisfactory completion of 34 hours of course work. A minimum of 28 credits must be in graduate-level courses; a minimum of 20 credits must be in graduate-level accounting courses. The remaining credits are selected from recommended elective courses that vary by area of specialization. Students are cautioned to seek early advisement, since many graduate courses are offered only once a year.

J.D./M.Acc. program: A joint program leading to the Juris Doctor and Master of Accounting degrees is offered by the Fisher School of Accounting and Levin College of Law. Specific details for the M.Acc., J.D./M.Acc., and Ph.D. programs are available at <http://warrington.ufl.edu/accounting/academics/jd-macc>.

Degrees Offered with a Major in Accounting

Master of Accounting

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Business Administration (Accounting)

College

[Warrington College of Business Administration](#)

Department/School

[Fisher School of Accounting](#)

Business Administration (Accounting) Program Information

The Ph.D. program offers a broad-based interdisciplinary training that prepares students to conduct both empirical and analytical research. The curriculum consists of course work of four types: the major field, a breadth requirement, a research foundation requirement, and a minor or supporting field. In addition, students must demonstrate competence in conducting research and teaching, and must complete a dissertation on an accounting topic.

The major field in accounting consists of at least 18 credit hours of course work including research analysis, archival research, analytical research, experimental research, readings, and a research project. The breadth requirement consists of at least 13 credit hours of course work including microeconomic theory, corporate finance theory, game theory, asset pricing and information economics. The research foundation requirement consists of at least 12 hours of graduate course work in mathematical economics, statistics, or econometrics. The minor or supporting field requirement is met by completing a minimum of 12 hours of graduate course work in the selected field.

Students demonstrate competency in conducting research by completing a research project in the summers of the first and second year. The teaching competence is demonstrated by completing at least 1 hour (but no more than 5 hours) of supervised teaching, and by teaching for at least 2 semesters. Admission requirements include a history of academic excellence, adequate score on the GMAT (the average score of recently admitted applicants is 690 for GMAT), competence in written and spoken English (TOEFL Internet-Based test (iBT) required for applicants whose native language is not English), appreciation of accounting issues, and institutional and math competency. The school requires a total score of 91, including a minimum of 26 on the speaking section.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Accounting

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value

- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I

- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations

- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Finance, Insurance, and Real Estate)

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Business Administration (Finance, Insurance, and Real Estate) Program Information

The Ph.D. in Business Administration - Finance and Real Estate program prepares students to engage in productive scholarly research and teaching in the broad area of financial and real estate economics. Graduates of this program typically are placed with major universities in the United States, although some students choose to work in research positions at non-academic institutions.

The Ph.D. program has a strong emphasis on scholarly research training. Admission requirements include (a) minimum grade point average of 3.5 in the last two years of an undergraduate program and in any previous graduate-level work, (b) minimum GRE score of 1300 or GMAT score of 600 (both verbal and quantitative scores must exceed the sixtieth percentile), and (c) (for nonnative speakers of English) a minimum score of 550 on the TOEFL. Generally students will not be admitted to the Ph.D. program unless they have been offered financial assistance by the University.

Finance

The student pursuing a concentration in finance typically specializes in corporate finance, financial markets and institutions, or investments. The Ph.D. curriculum consists of course work of four types: research foundations, the major field, a minor or supporting field, and a breadth requirement.

The research foundation requirements are comprised of courses in microeconomic theory, macroeconomic theory, mathematical methods and applications to economics, mathematical statistics, and econometrics. The actual courses will depend on the student's background and proposed thesis research.

The major field in finance consists of at least 16 credit hours in graduate course work in finance including financial theory, corporate finance, and seminars in empirical methods, market micro structure, and special topics. Students may elect to have one "strong" minor (16 credit hours), two "weak" minors (8 credit hours each), or a supporting field which is not declared as a minor. If a supporting field is chosen, at least 16 hours of course work acceptable to the student's supervisory committee must be taken. The supporting field option is selected when a student wishes to take courses across a number of departments. The department offers a combined B.S./M.S. program. Contact the graduate coordinator for information.

The breadth requirement applies only to students with no prior course work in business and consists of financial and managerial accounting or their equivalents, plus two courses out of the following areas: managerial economics, production operations management, or problems and methods in marketing management.

Real Estate

The research foundations are identical to those listed above for finance. The major field, minor, and supporting field requirements have the same credit stipulation as those outlined above for finance, except that the major work is in real estate.

The breadth requirement, as in all concentrations for the business administration program, applies only to students entering without prior course work in business. It consists of at least three courses from the following list (two or more fields must be represented): managers and legal environment of business, finance, money and capital markets, problems and methods of marketing management, consumer behavior, and financial and managerial accounting.

Other degree requirements are listed in the [Graduate Degrees](#) section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-fre>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Finance

concentration in Insurance

concentration in Quantitative Finance

concentration in Real Estate and Urban Analysis

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series

- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics

- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Information Systems and Operations Management Departmental Courses

- ISM 5021: Information Systems in Organizations
- ISM 6022: Management Information Systems
- ISM 6123: Systems Analysis and Design
- ISM 6128: Advanced Business Systems Design and Development I
- ISM 6129: Advanced Business Systems Design and Development II
- ISM 6215: Business Database Systems I
- ISM 6216: Business Database Systems II
- ISM 6217: Database Management Systems
- ISM 6222: Business Telecom Strategy and Applications I
- ISM 6223: Business Telecom Strategy and Applications II
- ISM 6224: Business Telecom Strategy and Applications III
- ISM 6226: Business Telecom Strategy and Applications
- ISM 6236: Business Objects I
- ISM 6239: Business Objects II
- ISM 6257: Intermediate Business Programming
- ISM 6258: Advanced Business Programming
- ISM 6259: Business Programming
- ISM 6405: Business Intelligence
- ISM 6423: Data Analysis for Decision Support
- ISM 6485: Electronic Commerce and Logistics
- ISM 6486: eCommerce Technologies
- ISM 6487: Risks and Controls in eCommerce
- ISM 6942: Electronic Commerce Practicum
- ISM 7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management

- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program

- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Information Systems and Operations Management)

College

[Warrington College of Business Administration](#)

Department/School

[Information Systems and Operations Management Department](#)

Business Administration (Information Systems and Operations Management)

The Department of Information Systems & Operations Management offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Doctor of Philosophy: The mission of the Ph.D. Program is to educate scholars who will make substantial contributions in their field of research. Our primary goal is to train graduate students to make such contributions. To achieve this goal, we attempt to place students in productive academic research environments. The major areas of study within the department are Information Systems/Information Technology (ISIT) and Operations Management (OM).

Students come from a variety of backgrounds, with the most common being engineering computer sciences, mathematics, business, and statistics. Students admitted for the Ph.D. choose to specialize either in information systems/information technology or in operations management. The course schedule taken by each student is always personalized to fit the background of the student and is developed in consultation with the Ph.D. program coordinator and/or chair of the dissertation committee. Additionally, doctoral students will be required to attend all ISOM Workshops and the Department Seminar Series (regardless of area of specialization) held at the University of Florida.

Admission requirements for the Ph.D. include

- A minimum grade point average of 3.2
- A minimum GMAT score of 650, or GRE scores acceptable to the program
- For nonnative speakers of English, submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-isom>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Information Systems and Operations Management

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management

- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions

- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts

- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship

- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing

- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (M.A.)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Master of Arts

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation

- TAX6526: International Taxation
- TAX6726: Executive Tax Planning
- TAX6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism

- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security/Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II

- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills

- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (M.B.A)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Master of Business Administration

General

concentration in Competitive Strategy

concentration in Entrepreneurship

concentration in Finance

concentration in Global Management

concentration in Graham-Buffett Security Analysis

concentration in Human Resource Management

concentration in Information Systems and Operations Management

concentration in International Studies

concentration in Latin American Business

concentration in Management

concentration in Marketing

concentration in Real Estate

concentration in Sports Administration

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education

- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management

- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming

- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations

- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business

- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (M.S.)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Master of Science

without a concentration

concentration in Retailing

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity

- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications

- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations

- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication

- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Management)

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

Business Administration (Management) Program Information

Doctor of Philosophy

The Ph.D. program in business administration in the Department of Management prepares students for careers as faculty members of universities that emphasize teaching and research. The program is designed so that the student will (1) develop strong competence in the base discipline crucial to the study of organizations and organization processes and (2) follow a field of specialization in organizational behavior, organizational theory, human resource management, and strategic studies. Admission requirements for the Ph.D. include (a) a minimum grade point average of 3.0, (b) a minimum GRE score of 1000, and (c) for nonnative speakers of English, a minimum score of 550 on the TOEFL.

The research interests of the faculty are quite broad. For example, work is being done on defining the domain of performance in organizations, employee selection, performance appraisal, goal setting and incentives, aging, dispositions and job satisfaction, corporate governance, health care, innovation processes, organizational control and executive compensation practices, agency theory, and organizational processes. Faculty often work on interdisciplinary projects with other departments.

In addition, the student has exposure to scholars and faculty members from other universities, and from other departments in the University, who are invited to give workshops in the Department.

Breadth Requirement: All students pursuing the Ph.D. are expected to be well versed in the structure and functioning of business organizations and the environment within which they operate. This requirement may be met through undergraduate or master's level work in business administration. The student who does not meet the breadth requirement before entering the Ph.D. program must take at least three graduate courses in different functional areas in the Warrington College of Business Administration but outside of the Department of Management. These courses should complement the major area of study selected by the student.

Research Skills Requirement: The general nature of the research requirement has been specified by the Graduate Committee of the Warrington College of Business. Students must take six approved courses to satisfy it. For the typical student in the Department of Management, the research foundation courses include at least 18 credits in courses such as philosophy of social science (e.g., [PHI 5425](#) or [PHI 5405](#)), basic statistical methods (e.g., [STA 6126](#)), research methods (e.g., [MAR 7786](#), [EDF 7486](#), or [PPE 6308](#)), psychometrics (e.g., [EDF 6436](#), [EDF 7439](#)), multivariate analysis ([EDF 7932](#)), experimental design ([MAR 7622](#)), field research methods ([POS 6757](#)), and qualitative research ([EDF 6475](#), [SYA 6315](#)). The specific program is determined by the student's supervisory committee and will be tailored to fit the student's prior preparation and the specialization that the student chooses.

Major Course Requirements: The program of study for each student will include required seminars in Organizational Behavior, Organizational Theory, Strategic Management, and Human Resource Management Research, and the Management Workshop.

Specialization Requirements: Each student selects a specialization area. Courses must provide the depth of knowledge required to teach and conduct research successfully in the area of specialization. This part of the program will be developed by the supervisory committee in conjunction with the student. The specialization courses are primarily offered within the Department of Management, although it is quite common for students to take courses in related disciplines, such as Marketing, Finance, Economics, Psychology, Statistics, and Decision and Information Systems. Procedures for the qualifying examinations, dissertation, and final examination are given in the Requirements for the PhD. section of this catalog.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/phd-mgt>.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Management

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk

- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis

- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing

- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Marketing - Master's)

College

[Warrington College of Business Administration](#)

Department/School

[Marketing Department](#)

Business Administration (Marketing - Master's)

The Masters of Business Administration (M.B.A) with a concentration in marketing focuses on consumer behavior, marketing management, and marketplace phenomenon. Students study the critical linkages between an organization and its environment, particularly customers and competitors.

The M.S. degree in Business Administration with a concentration in marketing is intended for students whose ultimate objective is to earn a Ph.D. in marketing at another institution. Applicants must have (a) an undergraduate degree from a nationally accredited program, (b) a minimum 3.5 undergraduate GPA, (c) a minimum 600 GMAT (1250 GRE), and (d) evidence of a strong interest in academic research in marketing. The concentration requires 30 credits of graduate-level courses, at least half of which must be in marketing.

Degrees Offered with a Major in Business Administration

Master of Arts

concentration in Marketing

Master of Science

concentration in Marketing

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment

- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Marketing - Ph.D.)

College

[Warrington College of Business Administration](#)

Department/School

[Marketing Department](#)

Business Administration (Marketing - Ph.D.)

The doctoral program is research-focused and offers the opportunity for concentrated study in consumer behavior, marketing management, and quantitative or analytical modeling of marketplace phenomena.

The Ph.D. curriculum consists of course work in three areas: research foundations, the major field, and electives. In addition, students are required to complete a first-year summer research project, a third-year review paper, and a dissertation. Other requirements are outlined in the [Graduate Degrees](#) section of this catalog.

The research foundations requirement comprises a set of research methods and data analysis courses chosen from statistics, psychology, and/or economics. The major field course work is made up of a set of four required marketing seminars that are completed during the student's first 2 years in the program. Electives are selected from both advanced marketing seminars and other related disciplines to complement the student's research program.

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

concentration in Marketing

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing

- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods

- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I

- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics

- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior

- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Business Administration (Ph.D.)

College

[Warrington College of Business Administration](#)

Degrees Offered with a Major in Business Administration

Doctor of Philosophy

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation

- TAX6205: Partnership Taxation
- TAX6526: International Taxation
- TAX6726: Executive Tax Planning
- TAX6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets

- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I

- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development

- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Economics

College

[Warrington College of Business Administration](#)

Department/School

[Economics Department](#)

Degrees Offered with a Major in Economics

Doctor of Philosophy

Master of Arts

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I

- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Entrepreneurship

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Entrepreneurship Program Information

The Masters of Science in Entrepreneurship (M.S.E.) program is a one-year, 36-credit, campus-based program designed for young and aspiring entrepreneurs and change-makers. Offered to both business and non-business majors alike, the program is a combination of classroom delivery and experiential learning activities with a focus on opportunity assessment, feasibility analysis, lean entrepreneurial concept testing, business plan development, entrepreneurial leadership, and the sourcing of capital. Students are exposed to cutting edge entrepreneurial theory, which they apply immediately by consulting for small business, commercializing UF technology, and creating their own businesses.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/mse>.

Degrees Offered with a Major in Entrepreneurship

Master of Science in Entrepreneurship

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis

- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Finance

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Finance Program Information

The student pursuing a major in finance typically specializes in corporate finance, financial markets and institutions, or investments.

Master of Science degree in Finance, nonthesis option: This M.S. program option consists of at least 32 credits in letter-graded courses. It is designed to ensure that each student acquires a basic knowledge of the major financial economics subject areas: corporate finance, derivatives, fixed income securities, investments, international finance, and real estate. The program is designed to prepare students with an undergraduate background in finance for positions in commercial banking, money management, investment banking and securities markets.

The Department also offers a combined bachelor's/master's program. Contact the admissions director for information.

Master of Science degree in Finance/juris doctorate joint degree program: This joint degree program culminates in the M.S. and J.D. degrees. Applicants must meet the entrance requirements for both the Warrington College of Business Administration and the Levin College of Law. Admission to the second degree program is required no later than the end of the second consecutive semester after beginning one degree in the joint program.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/msf>.

Degrees Offered with a Major in Finance

Master of Science

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
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- FIN 6434: Private Equity
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- FIN 6465: Financial Statement Analysis
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- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
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- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
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- FIN 6958: International Finance Study Tour
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- FIN 7446: Financial Theory I
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- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis

- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Information Systems and Operations Management

College

[Warrington College of Business Administration](#)

Department/School

[Information Systems and Operations Management Department](#)

Information Systems and Operations Management Program Information

The Department of Information Systems & Operations Management offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the [Graduate Degrees](#) section of this catalog.

Master of Science: The M.S.ISOM program provides computing, analytical, and application skills to be used in a business setting. The primary areas of emphasis in the M.S.ISOM program are business intelligence and analytics, information systems/information technology, and supply chain management. Requirements span traditional academic disciplines to produce a multiple-discipline focus. Typical positions for graduates include decision support specialist, information systems specialist, systems analyst, and logistic support specialist.

For a student with a bachelor's degree in business or economics, the M.S.ISOM non-thesis on-campus program consists of a minimum of 36 credit hours, normally requiring a minimum of three semesters of study, not including summer. For students without a bachelor's degree in business or economics, the M.S.ISOM non-thesis on-campus program consists of a minimum of 40 credit hours, normally requiring a minimum of four semesters of study, not including summer.

All M.S.ISOM candidates must complete 26 credits of core coursework:

- [GEB 5212: Professional Writing in Business](#)
- [GEB 5215: Professional Communication in Business](#)
- [ISM 6128: Advanced Business Systems Design and Development I](#)
- [ISM 6129: Advanced Business Systems Design and Development II](#)
- [ISM 6215: Business Database Systems I](#)
- [ISM 6222: Business Telecom Strategy and Applications I](#)
- [ISM 6223: Business Telecom Strategy and Applications II](#)
- [ISM 6257: Intermediate Business Programming](#)
- [ISM 6258: Advanced Business Programming](#)
- [ISM 6485: Electronic Commerce and Logistics](#) (capstone course)
- [MAN 6581: Project Management](#)
- [OMB 6358: Statistical Analysis for Managerial Decisions I](#)
- [OMB 6755: Managerial Quantitative Analysis I](#)
- [OMB 6756: Managerial Quantitative Analysis II](#)

All M.S.ISOM candidates must also complete 6 credits of track coursework for the information technology, supply chain management, or business intelligence and analytics track:

Information Technology Track

- [ISM 6216: Business Database Systems II](#)
- [ISM 6236: Business Objects I](#)

- [ISM 6259: Business Programming](#)

Supply Chain Management Track

- [MAN 6511: Production Management Problems](#)
- [MAN 6528: Principles of Logistics/Transportation Systems](#)
- [MAN 6573: Purchasing and Materials Management](#)

Business Intelligence and Analytics Track

- [ISM 6216: Business Database Systems II](#)
- [ISM 6405: Business Intelligence](#)
- [ISM 6423: Data Analysis for Decision Support](#)

These required courses total 32 credit hours. In addition, each M.S.ISOM student with an undergraduate major or minor in business must take a minimum of 4 additional hours of approved graduate business electives for a total of 36 credit hours required for the M.S.ISOM degree. For students without an undergraduate business degree or minor, instead of graduate business electives, they must complete four of the following core business courses: [ACG 5005](#), [ACG 5075](#), [ECP 5702](#), [FIN 5437](#), [FIN 5439](#), [MAN 5246](#), [MAR 5806](#).

Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/ms-isom>.

Degrees Offered With a Major in Information Systems and Operations Management

Master of Science in Information Systems and Operations Management

without a concentration

concentration in Supply Chain Management

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I

- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

International Business

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

International Business Program

The Master of International Business (M.I.B.) is a non-thesis interdisciplinary graduate business program designed to enhance a student's knowledge and understanding of global business trends and problems.

All M.I.B. candidates must complete the 30-credit curriculum, which consists of 14 core credits and 16 elective credits, with a grade point average (major and overall) of 3.0 or higher. The curriculum includes a mandatory global immersion experience and a non-thesis capstone project.

Combined Degree: The Master of International Business offers a combined bachelor's/master's degree option for students pursuing a bachelor's degree in a business discipline or minor in business administration.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/mib>.

Degrees Offered with a Major in International Business

Master of International Business

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business

- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research
- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting

- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research
- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
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- ENT 6416: Venture Finance
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- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching

- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management
- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making

- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Management

College

[Warrington College of Business Administration](#)

Department/School

[Management Department](#)

Management Program Information

Master of Science degree with a major in Management, non-thesis option: This M.S. program is designed to afford general business competency to students who possess little or no educational business background. The M.S. with a major in management program is only open to non-business majors. Students must complete the 32-credit curriculum, which consists of 22 core credits and 10 elective credits, with a grade point average (major and overall) of 3.0 or higher.

Combined Degree Program: The M.S. with a major in management offers a combined bachelor's/master's degree option.

For more information, please see our website: <http://warrington.ufl.edu/graduate/academics/msm>.

Degrees Offered with a Major in Management

Master of Science

without a concentration

concentration in Health Care Risk Management

Management Departmental Courses

- BUL 5445: Ethical Role of the Manager
- BUL 5810: Legal Environment of Business
- BUL 5811: Managers and Legal Environment of Business
- BUL 5831: Commercial Law
- BUL 5832: Commercial Law for Accountants
- BUL 6440: Business Ethics and Corporation Social Responsibility
- BUL 6441: Business Ethics and Corporate Social Responsibility
- BUL 6516: Law of Real Estate Transactions
- BUL 6652: Law and Ethics of Corporate Governance
- BUL 6656: Law for Entrepreneurs
- BUL 6821: Cyberlaw and Ethics
- BUL 6841: Employment Law
- BUL 6851: International Business Law
- BUL 6852: International Business Law
- BUL 6891: Legal Aspects of Technology Management
- BUL 6905: Individual Work
- BUL 6930: Special Topics
- ENT 6706: Global Entrepreneurship
- MAN 5141: Leadership Skills
- MAN 5245: Organizational Behavior
- MAN 5246: Organizational Behavior
- MAN 5265: Managing Groups and Teams
- MAN 6107: Motivation in Organizational Setting
- MAN 6128: Management Skills and Personal Development
- MAN 6149: Developing Leadership Skills
- MAN 6257: Power and Politics in Organizations
- MAN 6266: Managing Groups and Teams in Organizations
- MAN 6286: Managing Strategic Processes and Change in Organizations
- MAN 6296: Designing Effective Organizations
- MAN 6321: Human Resource Management
- MAN 6331: Compensation in Organizations
- MAN 6351: Training and Development in Organizations
- MAN 6365: Organizational Staffing
- MAN 6366: Organizational Staffing
- MAN 6385: Strategic Human Resource Management
- MAN 6446: Negotiations
- MAN 6447: Art and Science of Negotiation
- MAN 6537: Managing Technology in Organizations
- MAN 6627: Cross Cultural Negotiation
- MAN 6635: International Aspects of Human Resource Management
- MAN 6636: Global Strategic Management
- MAN 6637: Global Strategic Management
- MAN 6721: Business Policy
- MAN 6724: Strategic Management
- MAN 6905: Individual Work in Management
- MAN 6910: Supervised Research
- MAN 6930: Special Topics
- MAN 6940: Supervised Teaching
- MAN 6957: International Studies in Management
- MAN 6958: International Study Program
- MAN 6973: Project in Lieu of Thesis
- MAN 7108: Seminar in Research Concepts and Methods in Management
- MAN 7109: Seminar in Motivation and Attitudes
- MAN 7146: Seminar in Leadership
- MAN 7207: Seminar on Foundations of Organizational Theory
- MAN 7208: Seminar in Contemporary Approaches to Organizations
- MAN 7267: Seminar on Groups and Teams Research
- MAN 7275: Organizational Behavior
- MAN 7328: Seminar on Staffing and Selection
- MAN 7778: Seminar in Strategic Adaptation to Environment
- MAN 7779: Strategic Processes and Structure in Organizations
- MAN 7933: Seminar in Management
- MAN 7979: Advanced Research

- MAN 7980: Research for Doctoral Dissertation

Accounting Departmental Courses

- ACG 5005: Financial Accounting
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Advanced Accounting
- ACG 5505: Governmental Accounting
- ACG 5637: Auditing I
- ACG 5647: Auditing II
- ACG 5815: Accounting Regulation
- ACG 6136: Accounting Theory
- ACG 6175: Financial Reporting and Analysis
- ACG 6207: Accounting for Risk
- ACG 6265: International Accounting and Taxation
- ACG 6635: Issues in Audit Practice
- ACG 6685: Forensic Accounting
- ACG 6691: International Auditing
- ACG 6697: Information Systems Assurance
- ACG 6905: Individual Work in Accounting
- ACG 6935: Special Topics in Accounting
- ACG 6940: Supervised Teaching
- ACG 7885: Accounting Research I
- ACG 7886: Accounting Research II
- ACG 7887: Research Analysis in Accounting
- ACG 7939: Theoretical Constructs in Accounting
- ACG 7979: Advanced Research
- ACG 7980: Research for Doctoral Dissertation
- TAX 5005: Introduction to Federal Income Taxation
- TAX 5025: Federal Income Tax 1
- TAX 5027: Federal Income Tax 2
- TAX 5065: Tax Professional Research
- TAX 6105: Corporate Taxation
- TAX 6115: Advanced Corporate Taxation
- TAX 6205: Partnership Taxation
- TAX 6526: International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: State and Local Taxation

Economics Departmental Courses

- ECO 5715: Open Economy Macroeconomics
- ECO 6075: Economics/Consumer Education
- ECO 6407: Game Theory and Competitive Strategy: Theory and Cases
- ECO 6409: Game Theory Applied to Business Decisions
- ECO 6716: International Macroeconomics
- ECO 6906: Individual Work in Economics
- ECO 6910: Supervised Research
- ECO 6936: Special Topics
- ECO 6940: Supervised Teaching
- ECO 6957: International Studies in Economics
- ECO 6971: Research for Master's Thesis
- ECO 7113: Information Economics
- ECO 7115: Microeconomic Theory
- ECO 7118: Markets and Institutions
- ECO 7119: Information, Incentives, and Agency Theory
- ECO 7120: General Equilibrium and Welfare Economics
- ECO 7206: Macroeconomic Theory I
- ECO 7272: Economic Growth I
- ECO 7404: Game Theory for Economists
- ECO 7405: Mathematical Economics: Game Theory
- ECO 7406: Dynamic Economics: Theory and Applications
- ECO 7408: Mathematical Methods and Applications to Economics
- ECO 7415: Statistical Methods in Economics
- ECO 7424: Econometric Models and Methods
- ECO 7426: Econometric Methods I
- ECO 7427: Econometric Methods II
- ECO 7452: Best Empirical Practices in Economics
- ECO 7516: Tax Theory and Public Policy
- ECO 7525: Welfare Economics and The Second Best
- ECO 7534: Empirical Public Economics I
- ECO 7535: Empirical Public Economics II
- ECO 7536: Theoretical Public Economics
- ECO 7706: Theory of International Trade
- ECO 7707: International Economic Relations
- ECO 7925: Research Skills Workshop
- ECO 7938: Advanced Economics Seminar
- ECO 7979: Advanced Research

- ECO 7980: Research for Doctoral Dissertation
- ECP 5415: Antitrust Policy and Managerial Decisions
- ECP 5702: Managerial Economics
- ECP 5705: Economics of Business Decisions
- ECP 6417: Public Policy and Social Control
- ECP 6701: Competitive Strategies in Expanding Markets
- ECP 6708: Cases in Competitive Strategy
- ECP 6407: Economics for Managing Information for Electronic Commerce
- ECP 7407: Theory of Industrial Organization: Product Differentiation and Strategy
- ECP 7408: Empirical Industrial Organization
- ECP 7418: Economics of Regulation
- ECP 7419: Current Research in Regulation
- HSA 6436: Health Economics

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading
- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics in Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments

- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Information Systems and Operations Management Departmental Courses

- ISM5021: Information Systems in Organizations
- ISM6022: Management Information Systems
- ISM6123: Systems Analysis and Design
- ISM6128: Advanced Business Systems Design and Development I
- ISM6129: Advanced Business Systems Design and Development II
- ISM6215: Business Database Systems I
- ISM6216: Business Database Systems II
- ISM6217: Database Management Systems
- ISM6222: Business Telecom Strategy and Applications I
- ISM6223: Business Telecom Strategy and Applications II
- ISM6224: Business Telecom Strategy and Applications III
- ISM6226: Business Telecom Strategy and Applications
- ISM6236: Business Objects I
- ISM6239: Business Objects II
- ISM6257: Intermediate Business Programming
- ISM6258: Advanced Business Programming
- ISM6259: Business Programming
- ISM6405: Business Intelligence
- ISM6423: Data Analysis for Decision Support
- ISM6485: Electronic Commerce and Logistics
- ISM6486: eCommerce Technologies
- ISM6487: Risks and Controls in eCommerce
- ISM6942: Electronic Commerce Practicum
- ISM7166: Advanced Business Systems Design and Development III
- MAN 5501: Management
- MAN 5502: Production and Operations Management
- MAN 6508: Management of Service Operations
- MAN 6511: Production Management Problems
- MAN 6528: Principles of Logistics/Transportation Systems
- MAN 6573: Purchasing and Materials Management
- MAN 6575: Purchasing and Supplier Relationship Management
- MAN 6581: Project Management
- MAN 6586: Project Management
- MAN 6598: Logistics and Distribution Management
- MAN 6599: Tactical Logistics Planning
- MAN 6617: International Operations/Logistics
- MAN 6619: International Logistics
- QMB 5303: Managerial Statistics
- QMB 5304: Introduction to Managerial Statistics
- QMB 5305: Advanced Managerial Statistics
- QMB 6358: Statistical Analysis for Managerial Decisions I
- QMB 6359: Statistical Analysis for Managerial Decisions II
- QMB 6607: Decision Processes Under Uncertainty I
- QMB 6616: Business Process Analysis
- QMB 6693: Quality Management and Control Systems
- QMB 6697: Optimization in Simulation Modeling I
- QMB 6755: Managerial Quantitative Analysis I
- QMB 6756: Managerial Quantitative Analysis II
- QMB 6905: Individual Work in Information Systems and Operations Management
- QMB 6910: Supervised Research
- QMB 6930: Special Topics in Information Systems and Operations Management

- QMB 6940: Supervised Teaching
- QMB 6941: Internship
- QMB 6957: International Studies in Quantitative Methods
- QMB 6971: Research for Master's Thesis
- QMB 7931: Special Topics in Information Systems and Operations Management
- QMB 7933: Seminar in Information Systems and Operations Management
- QMB 7979: Advanced Research
- QMB 7980: Research for Doctoral Dissertation

Marketing Departmental Courses

- MAR 5805: Problems and Methods in Marketing Management
- MAR 5806: Problems and Methods in Marketing Management
- MAR 6157: International Marketing
- MAR 6158: International Marketing
- MAR 6237: The Art and Science of Pricing
- MAR 6256: Strategy and Tactics of Pricing
- MAR 6335: Building and Managing Brand Equity
- MAR 6456: Business-to-Business Marketing
- MAR 6508: Customer Analysis
- MAR 6646: Marketing Research for Managerial Decision Making
- MAR 6648: Marketing Research for Managerial Decision Making
- MAR 6722: Web-Based Marketing
- MAR 6725: Introduction to Electronic Commerce
- MAR 6816: Advanced Marketing Management (MBA)
- MAR 6818: Advanced Marketing Management
- MAR 6833: Product Development and Management
- MAR 6834: Marketing of Science and Technology
- MAR 6835: Marketing of Science and Technology
- MAR 6837: Consumer-Centered Product Design
- MAR 6861: Customer Relationship Management
- MAR 6862: Customer Relationship Management
- MAR 6905: Individual Work
- MAR 6910: Supervised Research
- MAR 6930: Special Topics in Marketing
- MAR 6940: Supervised Teaching
- MAR 6957: International Studies in Marketing
- MAR 6971: Research for Master's Thesis
- MAR 6973: Project in Lieu of Thesis
- MAR 7507: Perspectives on Consumer Behavior
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7786: Marketing Literature
- MAR 7925: Workshop in Marketing Research
- MAR 7979: Advanced Research
- MAR 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

Real Estate

College

[Warrington College of Business Administration](#)

Department/School

[Finance, Insurance, and Real Estate Department](#)

Real Estate Program Information

The ten-month, full-time in residence, Nathan S. Collier Master of Science in Real Estate (MSRE) Program, housed in the Warrington College of Business Administration (WCBA), thrives on innovation, a dynamic student body, significant interaction with high-level working professionals, and nationally recognized professors. The program is a unique combination of theory and practice that will both enhance your real estate education and develop your professional skills.

Master of Science degree in real estate, nonthesis option: This M.S. option consists of at least 34 credits of letter-graded courses. It is designed to ensure that each student acquires a basic knowledge of the various functional areas in real estate, real estate finance and investment, real estate development, real estate law and institutions, real estate asset management, international real estate, and advanced training in specialized areas. The capstone course (REE 6948) involves actual projects in which students work in teams to undertake a real estate problem for real clients. This two-tiered program of study provides both a firm theoretical foundation for later professional effectiveness and an applied bridge to professional practice.

Master of Science degree in real estate/juris doctorate joint program: This joint degree program culminates in the M.S. and J.D. degrees. Applicants must meet the entrance requirements for both the Warrington College of Business Administration and the Levin College of Law. Admission to the second degree program is required no later than the end of the second consecutive semester after beginning one degree of the joint program.

The Department also offers a combined bachelor's / master's program for all undergraduate disciplines.

For more information, please contact the admissions director and see our website: <http://warrington.ufl.edu/graduate/academics/msre>.

Degrees Offered with a Major in Real Estate

Master of Science

Finance, Insurance, and Real Estate Departmental Courses

- ENT 5275: Family Business Management
- ENT 6006: Entrepreneurship
- ENT 6008: Entrepreneurial Opportunity
- ENT 6016: Venture Analysis
- ENT 6116: Business Plan Formation
- ENT 6416: Venture Finance
- ENT 6506: Social Entrepreneurship
- ENT 6616: Creativity in Entrepreneurship
- ENT 6905: Individual Work in Entrepreneurship
- ENT 6930: Special Topics
- ENT 6933: Entrepreneurship Lecture Series
- ENT 6946: Entrepreneurial Consulting Project
- ENT 6950: Integrated Technology Ventures
- ENT 6957: International Studies in Entrepreneurship
- FIN 5405: Business Financial Management
- FIN 5437: Finance I: Asset Valuation, Risk, and Return
- FIN 5439: Finance II: Capital Structure and Risk Management Issues
- FIN 6108: Personal Financial Management
- FIN 6246: Money and Capital Markets
- FIN 6296: Capitalism
- FIN 6306: Investment Banking
- FIN 6418: International Cash Flow Management
- FIN 6425: Corporation Finance
- FIN 6427: Measuring and Managing Value
- FIN 6429: Financial Decision Making
- FIN 6432: Asset Valuation and Corporate Finance
- FIN 6434: Private Equity
- FIN 6438: Study in Valuation
- FIN 6465: Financial Statement Analysis
- FIN 6477: Entrepreneurial Finance
- FIN 6489: Financial Risk Management
- FIN 6496: Mergers & Acquisitions
- FIN 6518: Investment Concepts
- FIN 6525: Asset Management Project
- FIN 6526: Portfolio Theory
- FIN 6528: Asset Allocation and Investment Strategy
- FIN 6537: Derivative Securities
- FIN 6545: Fixed Income Security Valuation
- FIN 6547: Interest Rate Risk Management
- FIN 6549: Special Topics in Fixed Income Securities
- FIN 6575: Emerging Markets Finance I
- FIN 6576: Emerging Markets Finance II
- FIN 6585: Securities Trading

- FIN 6595: Investment Analytics
- FIN 6596: Introduction to Computational Methods & Derivative Pricing
- FIN 6608: Financial Management of the Multinational Corporation
- FIN 6626: International Finance
- FIN 6638: International Finance
- FIN 6643: Project Analysis in a Global Environment
- FIN 6727: Economic Organizations and Markets
- FIN 6728: Capitalism and Regulation
- FIN 6729: Economics Organizations and Markets
- FIN 6785: Investment Banking and Corporate Financial Modeling I
- FIN 6786: Investment Banking and Corporate Financial Modeling II
- FIN 6905: Individual Work in Finance
- FIN 6930: Special Topics in Finance
- FIN 6935: Finance Professional Speaker Series
- FIN 6936: Special Topics In Investment Finance
- FIN 6940: Supervised Teaching
- FIN 6957: International Studies in Finance
- FIN 6958: International Finance Study Tour
- FIN 6971: Research for Master's Thesis
- FIN 7446: Financial Theory I
- FIN 7447: Financial Theory II
- FIN 7808: Corporate Finance
- FIN 7809: Investments
- FIN 7848: Marketing Microstructure
- FIN 7938: Finance Research Workshop
- FIN 7979: Advanced Research
- FIN 7980: Research for Doctoral Dissertation
- GEB 5114: Entrepreneurship and Venture Finance
- GEB 5118: New Venture Creation
- GEB 6157: Entrepreneurship Experiential Learning Project
- GEB 6366: Fundamentals of International Business
- GEB 6924: Entrepreneurship Professional Speaker Series
- REE 6045: Introduction to Real Estate
- REE 6058: Construction Considerations in Real Estate
- REE 6105: Real Estate Appraisal
- REE 6206: Primary Mortgage Markets and Institutions
- REE 6208: Secondary Mortgage Markets and Securitization
- REE 6315: Real Estate Market and Transaction Analysis
- REE 6395: Investment Property Analysis
- REE 6397: Real Estate Securities and Portfolios
- REE 6705: Geographic Information Systems and Location Analysis
- REE 6737: Real Estate Development
- REE 6905: Individual Work in Real Estate
- REE 6910: Supervised Research
- REE 6930: Special Topics in Real Estate
- REE 6935: Real Estate Case Studies
- REE 6940: Supervised Teaching
- REE 6948: Capstone Seminar and Applied Project
- REE 6957: International Studies in Real Estate
- REE 7979: Advanced Research
- REE 7980: Research for Doctoral Dissertation

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- GEB 6229: Professional Communication for Accountants
- GEB 6365: International Business
- GEB 6368: Globalization and the Business Environment
- GEB 6905: Individual Work
- GEB 6928: Professional Development Module IV
- GEB 6930: Special Topics
- GEB 6941: Internship
- GEB 6957: International Studies in Business

College of Dentistry

Interim Dean: Boyd Robinson

Associate Dean & Director: Roberta Pileggi

Complete faculty listings: [Follow this link.](#)

Advanced education has progressed over the years to be an integral component of the College of Dentistry, growing from six certificate residency programs, with an enrollment of only 36 students in 1979, to fourteen certificate programs and various fellowship programs. Enrollment is now over 140. In 1993, the college started master degree programs in endodontics, orthodontics, periodontics and prosthodontics, and continues today to grow.

Follow this link for more information about UF's College of Dentistry graduate programs: <http://admissions.dental.ufl.edu/advanced-graduate-programs/programs-application-process/>

[Departments and Programs within the College of Dentistry](#)

[College of Dentistry Courses](#)

Other

Dental Sciences

College

[College of Dentistry](#)

Department/School

[Dental Sciences Department](#)

Dental Sciences Program Information

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1

The application deadline of Orthodontics is September 2

Send applications to:

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402.

Those not in Dentistry are given in-department graduate credit. Registration in the courses listed below is restricted to students currently admitted to a program in the College of Dentistry.

Degrees Offered with a Major in Dental Sciences

Master of Science

without a concentration

concentration in Endodontics

concentration in Orthodontics

concentration in Periodontics

concentration in Prosthodontics

General Courses

- DEN 6937
- DEN 6674: Advanced Oral Pathology
- DEN 6675: Craniofacial Pain
- DEN 6678: Advanced Oral Medicine and Drug Interactions in Dentistry
- DEN 6679: Advanced Radiology and Interpretation
- DEN 6905: Individual Study
- DEN 6910: Supervised Research
- DEN 6934: Special Topics in Dentistry
- DEN 6935: Special Topics in Dentistry
- DEN 6936: Practice Management
- DEN 6940: Supervised Teaching
- DEN 6941: Clinical Teaching in Dentistry
- DEN 6942: Grand Rounds
- DEN 6971: Research for Master's Thesis
- DEN 6973: Project in Lieu of Thesis

Endodontics Courses

- DEN 6642: Introduction to Advanced Endodontics
- DEN 6643: Treatment Planning/Cases Presentation
- DEN 6644: Nonsurgical Endodontic Care I
- DEN 6645: Nonsurgical Endodontic Care II
- DEN 6646: Surgical Endodontics I
- DEN 6647: Surgical Endodontics II

Orthodontics Courses

- DEN 6602: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 1: Class I Treatment
- DEN 6603: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 2: Class II Treatment
- DEN 6604: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 3: Class II Treatment and Overbite Treatments
- DEN 6605: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 4: Class II Treatment and Overbite Treatments
- DEN 6606: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 5: Class III and Crossbite Treatments and Soft Tissue Considerations
- DEN 6607: Orthodontic Treatment—Appliance Management and Effect of Treatment Part 6: Impactions, Transplantations and Stability
- DEN 6608: Analysis, Diagnosis, and Treatment Planning: Part I
- DEN 6609: Analysis, Diagnosis, and Treatment Planning: Part II
- DEN 6610: Biology of Tooth Movement: Part I
- DEN 6612: Orthodontic Biomechanics: Part I
- DEN 6613: Orthodontic Biomechanics: Part II
- DEN 6614: Ortho-Perio Relationships: Part I
- DEN 6615: Ortho-Perio Relationships: Part II
- DEN 6616: Orthognathic Surgery: Part I
- DEN 6617: Orthognathic Surgery: Part II
- DEN 6618: Postnatal Growth and Development
- DEN 6670: Craniofacial Anomalies
- DEN 6671: Prenatal Growth and Development
- DEN 6672: Materials in Orthodontics

Periodontics Courses

- DEN 6652: Review of Periodontics Literature I
- DEN 6653: Review of Periodontics Literature II
- DEN 6654: Review of Periodontics Literature III
- DEN 6655: Review of Periodontics Literature IV
- DEN 6656: Introduction to Advanced Periodontology
- DEN 6657: Periodontal Histology and Histopathology

- DEN 6658: Treatment Planning in Periodontal Therapy

Prosthodontics Courses

- DEN 6622: Principles of Occlusion
- DEN 6623: Maxillofacial Prosthetics
- DEN 6624: Dental Implant Restoration
- DEN 6625: Fixed Prosthodontic Ceramics
- DEN 6626: Advanced Removable Partial Dentures
- DEN 6627: Treatment Planning Seminar

College of Design, Construction, and Planning

Dean: C. Silver

Complete faculty listings: [Follow this link.](#)

DCP is home to five independent professional disciplines: architecture, construction management, interior design, landscape architecture and urban and regional planning. The college also is home to an interdisciplinary program in historic preservation, which allows graduate students to gain expertise in research and application of historic preservation in the United States and abroad.

Accreditation and Degrees

The academic programs in the college have an accreditation process from the professional organizations of each discipline.

- Architecture – National Architectural Accrediting Board
- Construction Management – American Council for Construction Education
- Interior Design – Foundation for Interior Design Education Research
- Landscape Architecture – American Society of Landscape Architects
- Urban and Regional Planning – Planning Accreditation Board

DCP offers both undergraduate and graduate degrees and programs. Through its academic units, the college offers doctoral, master's, and bachelor's degrees, as well as distance education programs, combined degrees, joint degrees, certificate programs, and academic minors.

College Institutes, Centers and Programs

Research and service projects conducted through the research centers and institutes often entail multidisciplinary, cross-campus student input and effort. Each division of the college is involved in on-going projects that advance both scholarly study and professional practice. The college contributes to community, state, regional and national efforts to conserve and improve the quality of the natural and built environments through its research centers. The college's teaching and research programs have national and international prominence.

For more information, please see our website: <http://www.dcp.ufl.edu>

[Departments and Programs within the College of Design, Construction, and Planning](#)

[College of Design, Construction, and Planning Courses](#)

Other

Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[School of Architecture](#)

Degrees Offered with a Major in Architecture

Master of Science in Architectural Studies

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Master of Architecture

without a concentration

concentration in Historic Preservation

concentration in Sustainable Architecture

concentration in Sustainable Design

Courses

- ARC 6512: Structural Modeling
- ARC 6116: Drawing toward Architecture
- ARC 6311C: Building Information Modeling
- ARC 6383: St. Augustine Interdisciplinary Design Studio
- DCP 6710: History and Theory of Historic Preservation
- DCP 6715: Preservation Building Technology
- DCP 6971: Research for Master's Thesis
- URP 6272: Advanced Planning Information Systems

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice

- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Construction Management

Master of Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Master of Science in Construction Management

without a concentration

concentration in Historic Preservation

concentration in Sustainable Construction

concentration in Sustainable Design

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM5905: Special Studies
- ICM6420: Commercial Management and Cost Control
- ICM6440: Construction Value Management

- ICM6680: Principles of International Sustainable Construction
- ICM6682: Construction Ecology and Metabolism
- ICM6684: High-Performance Green Building Delivery Systems
- ICM6710: Construction Human Resource Management
- ICM6750: Managing Construction Information Technology
- ICM6751: International Construction Management
- ICM6752: Construction Finance and Investment
- ICM6761: Advanced Planning, Scheduling, and Logistics
- ICM6762: Construction Risk Management
- ICM6770: Advanced Project Safety Management
- ICM6772: International Strategic Management
- ICM6905: Directed Independent Study in International Construction
- ICM6910: Supervised Research
- ICM6930: Construction Communication and Research
- ICM6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Design, Construction, and Planning (Ph.D.)

College

[College of Design, Construction, and Planning](#)

Degrees Offered with a Major in Design, Construction, and Planning

Doctor of Philosophy

without a concentration

concentration in Construction Management

optional second concentration in Geographic Information Systems

concentration in Geographic Information Systems

concentration in Historic Preservation

optional second concentration in Geographic Information Systems

concentration in Interior Design

optional second concentration in Geographic Information Systems

concentration in Landscape Architecture

optional second concentration in Geographic Information Systems

concentration in Urban and Regional Planning

optional second concentration in Geographic Information Systems

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods

- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings

- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

Landscape Architecture Departmental Courses

- LAA 5331: Site Design Methodologies
- LAA 5366: Principles of Landscape Architecture
- LAA 6231: Landscape Architecture Theory
- LAA 6322: Project Management for Landscape Architects
- LAA 6342: Landscape Architecture Criticism
- LAA 6349C: Design Communications for Landscape Architects
- LAA 6382: Ecological and Environmental Policy
- LAA 6525L: Advanced Landscape Construction Design
- LAA 6536: Landscape Management
- LAA 6656C: Advanced Landscape Architectural Design
- LAA 6713: Cultural Landscapes
- LAA 6716: History of Landscape Architecture
- LAA 6905: Directed Study
- LAA 6931: Water Conservation through Site Design and Green Roofs
- LAA 6931C: Special Topics
- LAA 6933: Topics in European Design: Paris, France
- LAA 6935: Gardens of the World
- LAA 6941: Supervised Internship
- LAA 6952C: European Landscape Architecture Studio
- LAA 6971: Research for Master's Thesis
- LAA 6979: Terminal Project

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Fire and Emergency Services

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Fire and Emergency Services Program Information

The Master of Fire and Emergency Services degree program focuses on Emergency Services/Disaster Management (ES/DM) and is designed for individuals who are seeking knowledge in emergency planning, hazard mitigation and preparedness, disaster response and recovery, and homeland security. The goal is to create broad experience that includes the many elements of current cases in ES/DM and emphasizes both the critical thinking and leadership skills necessary to advance in the field.

The M.F.E.S. degree provides post-professional advancement for the critical technical issues beyond the initial fire science practices and administrative studies. Major research topics include interdisciplinary studies in material sciences, suppression systems, advanced planning and geographic systems, pre- and post-disaster mitigation planning, computer applications, and technological innovations.

The M.F.E.S. is an online distance education program. All courses are conveniently delivered utilizing a web-based e-Learning system.

For more information, please see our website: <http://www.bcn.ufl.edu/academics/masters/msfesedm>.

Degrees Offered with a Major in Fire and Emergency Services

Master of Fire and Emergency Services

without a concentration

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance

- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Historic Preservation

College

[College of Design, Construction, and Planning](#)

Degrees Offered with a Major in Historic Preservation

Master of Historic Preservation

Architecture Departmental Courses

- ARC 5791: Topics in Architectural History
- ARC 5800: Survey of Architectural Preservation, Restoration, and Reconstruction
- ARC 5810: Techniques of Architectural Documentation
- ARC 6176: Advanced Computer-Aided Design
- ARC 6212: Topics in Phenomena and Architecture
- ARC 6226: Intercultural Perspectives in Architecture
- ARC 6228: Film and Architecture
- ARC 6241: Advanced Studio I
- ARC 6242: Research Methods
- ARC 6280: Advanced Topics in Architectural Practice
- ARC 6281: Professional Practice
- ARC 6355: Advanced Studio II
- ARC 6356: Advanced Studio III
- ARC 6357: Advanced Topics in Architectural Design
- ARC 6391: Architecture, Energy, and Ecology
- ARC 6393: Advanced Architectural Connections
- ARC 6399: Advanced Topics in Urban Design
- ARC 6505: Architectural Structural Systems: Wood, Steel, and Concrete
- ARC 6576: Architectural Structures
- ARC 6611: Advanced Topics in Architectural Technology
- ARC 6621: Graduate Environmental Technology 2
- ARC 6642: Architectural Acoustic Design Laboratory
- ARC 6643: Architectural Acoustics
- ARC 6670: Lighting Design Seminar
- ARC 6685: Life Safety, Sanitation, and Plumbing Systems
- ARC 6705: Graduate Architectural History 3
- ARC 6711: Architecture of the Ancient World
- ARC 6750: Architectural History: America
- ARC 6773: Strains of Modernism
- ARC 6793: Advanced Topics in Regional Architecture
- ARC 6805: Architectural Conservation
- ARC 6821: Preservation Problems and Processes
- ARC 6822: Preservation Programming and Design
- ARC 6851: Technology of Preservation: Materials and Methods I
- ARC 6852: Technology of Preservation: Materials and Methods II
- ARC 6883: Vernacular Architecture & Sustainability
- ARC 6911: Architectural Research
- ARC 6912: Architectural Research II
- ARC 6913: Architectural Research III
- ARC 6932: Advanced Topics in Architectural Methods
- ARC 6933: Sustainable Site Design
- ARC 6934: European Approach to Sustainable Design
- ARC 6935: Seminar in Sustainable Design
- ARC 6940: Supervised Teaching
- ARC 6971: Research for Master's Thesis
- ARC 6979: Master's Research Project

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health

- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching

- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Interior Design

College

[College of Design, Construction, and Planning](#)

Department/School

[Interior Design Department](#)

Degrees Offered with a Major in Interior Design

Master of Interior Design

without a concentration

concentration in Historic Preservation

concentration in Sustainable Design

Courses

- IND 5326: Color Theory Planning and Practice

Interior Design Departmental Courses

- IND 5023: Introduction to Architectural Interiors
- IND 5106: History of Interior Design I
- IND 5136: History of Interior Design II
- IND 5212C: Architectural Interiors I
- IND 5213C: Introduction to Architectural Interiors Lab
- IND 5227C: Advanced Architectural Interiors I
- IND 5231C: Architectural Interiors II
- IND 5232C: Advanced Architectural Interiors II
- IND 5317C: Interior Design Communication Systems
- IND 5427C: Interior Design Construction Documents
- IND 5428: Materials for Interior Design
- IND 5434C: Interior Lighting
- IND 5445C: Furniture Design
- IND 5454C: Advanced Interior Design Detailing and Construction Documents
- IND 5464C: Computer Applications in Three-Dimensional Design
- IND 5466: Interior Environmental Technology
- IND 5508: Business and Professional Practices for Interior Designers
- IND 5638: Design Environments and Human Interaction
- IND 5937: Current Topics in Interior Design
- IND 6239: Advanced Topics in Interior Design Studio
- IND 6639: Methods of Interior Design Research
- IND 6906: Independent Studies and Readings
- IND 6940: Supervised Teaching
- IND 6941: Interior Design Internship
- IND 6971: Research for Master's Thesis

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

International Construction Management

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in International Construction Management

Master of International Construction Management

without a concentration

concentration in Historic Preservation

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning

- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Landscape Architecture

College

[College of Design, Construction, and Planning](#)

Department/School

[Landscape Architecture Department](#)

Landscape Architecture Program

The Department of Landscape Architecture offers graduate programs leading to the Master of Landscape Architecture (M.L.A.) degree in Landscape Architecture. A Ph.D. degree with a concentration in Landscape Architecture is also offered through the College of Design, Construction and Planning. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Master of Landscape Architecture: The MLA is a Landscape Architecture Accreditation Board (LAAB) accredited professional Master's degree in Landscape Architecture. Graduation from an accredited program is an essential first step toward licensing in Florida and other states that regulate the practice of landscape architecture.

For more information, please see our website: <http://www.dcp.ufl.edu/landscape>.

Degrees Offered with a Major in Landscape Architecture

Master of Landscape Architecture

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Wetland Sciences

Landscape Architecture Departmental Courses

- LAA5331: Site Design Methodologies
- LAA5366: Principles of Landscape Architecture
- LAA6231: Landscape Architecture Theory
- LAA6322: Project Management for Landscape Architects
- LAA6342: Landscape Architecture Criticism
- LAA6349C: Design Communications for Landscape Architects
- LAA6382: Ecological and Environmental Policy
- LAA6525L: Advanced Landscape Construction Design
- LAA6536: Landscape Management
- LAA6656C: Advanced Landscape Architectural Design
- LAA6713: Cultural Landscapes
- LAA6716: History of Landscape Architecture
- LAA6905: Directed Study
- LAA6931: Water Conservation through Site Design and Green Roofs
- LAA6931C: Special Topics
- LAA6933: Topics in European Design: Paris, France
- LAA6935: Gardens of the World
- LAA6941: Supervised Internship
- LAA6952C: European Landscape Architecture Studio
- LAA6971: Research for Master's Thesis
- LAA6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Sustainable Construction

College

[College of Design, Construction, and Planning](#)

Department/School

[M.E. Rinker, Sr., School of Construction Management](#)

Degrees Offered with a Major in Sustainable Construction

Master of Science in Construction Management

Construction Management Departmental Courses

- BCN 5470: Construction Methods Improvements
- BCN 5618C: Comprehensive Estimating
- BCN 5625: Construction Cost Analysis
- BCN 5705C: Project Management for Construction
- BCN 5715: Advanced Construction Labor Problems
- BCN 5722: Advanced Construction Planning and Control
- BCN 5729: Design-Build Delivery Methods
- BCN 5737: Advanced Issues in Construction Safety and Health
- BCN 5754C: Site Development
- BCN 5776: International Construction Business Management
- BCN 5778: Facilities Operation and Maintenance
- BCN 5789C: Construction Project Delivery
- BCN 5874: Equipment and Methods for Heavy Construction
- BCN 5885: Methods and Management for Heavy Construction
- BCN 5905: Special Studies in Construction
- BCN 5949: Graduate Construction Management Internship
- BCN 5957: Advanced International Studies in Construction
- BCN 6036: Research Methods in Construction
- BCN 6580: High-Performance Green Building Delivery Systems
- BCN 6585: Sustainable Construction
- BCN 6586: Construction Ecology and Metabolism
- BCN 6621: Bidding Strategy
- BCN 6641: Construction Value Engineering
- BCN 6748: Construction Law
- BCN 6755: Construction Financial Management
- BCN 6756: Housing Economics and Policy
- BCN 6777: Construction Management Processes
- BCN 6785: Construction Information Systems
- BCN 6905: Directed Independent Study in Construction
- BCN 6910: Supervised Research
- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research
- BCN 6940: Supervised Teaching
- BCN 6971: Research for Master's Thesis
- FES 6705: Communications in Emergency Management
- FES 6724: Fire and Emergency Services Response Planning
- FES 6726: Hazard Mitigation and Preparedness
- FES 6735: International Emergency/Disaster Management
- FES 6736: Homeland Security and Emergency Management
- FES 6786: Research Methods in FES
- FES 6806: Disaster Response and Recovery
- FES 6826: Emergency Services - Disaster Planning
- FES 6827: Business Continuity and Disaster Planning
- FES 6836: Impacts of Natural and Man-made Disasters on Buildings
- FES 6916: Research for Master's Report
- FES 6940: Practicum in FES
- ICM 5905: Special Studies
- ICM 6420: Commercial Management and Cost Control
- ICM 6440: Construction Value Management
- ICM 6680: Principles of International Sustainable Construction
- ICM 6682: Construction Ecology and Metabolism
- ICM 6684: High-Performance Green Building Delivery Systems
- ICM 6710: Construction Human Resource Management
- ICM 6750: Managing Construction Information Technology
- ICM 6751: International Construction Management
- ICM 6752: Construction Finance and Investment
- ICM 6761: Advanced Planning, Scheduling, and Logistics
- ICM 6762: Construction Risk Management
- ICM 6770: Advanced Project Safety Management
- ICM 6772: International Strategic Management
- ICM 6905: Directed Independent Study in International Construction
- ICM 6910: Supervised Research
- ICM 6930: Construction Communication and Research
- ICM 6934: International Construction Research

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering

- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I
- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Urban and Regional Planning

College

[College of Design, Construction, and Planning](#)

Department/School

[Urban and Regional Planning Department](#)

Degrees Offered with a Major in Urban and Regional Planning

Master of Arts in Urban and Regional Planning

without a concentration

concentration in Geographic Information Systems

concentration in Historic Preservation

concentration in Sustainable Design

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- URP 6276: Internet Geographic Information Systems
- URP 6277: Land Use Visioning and Analysis
- URP 6610: International Development Planning
- URP 6711: Transportation and Land Use Coordination
- URP 6743: Affordable Housing Law
- URP 6855: Urban Form in Cities throughout the Americas
- URP 6887: Advanced Defensible Space in Urban Design

Urban and Regional Planning Departmental Courses

- URP 6042: Urban Economy
- URP 6061: Planning Administration and Ethics
- URP 6100: Planning Theory and History
- URP 6122: Alternative Conflict Management
- URP 6131: Growth Management Powers I
- URP 6132: Growth Management Seminar
- URP 6203: Planning Research Design
- URP 6231: Quantitative Data Analysis for Planners
- URP 6270: Survey of Planning Information Systems
- URP 6271: Planning Information Systems
- URP 6272: Advanced Planning Information Systems
- URP 6274: GPS for Planners: Introduction to Global Positioning System
- URP 6275: Spatial Database Design and Development
- URP 6312: Land Development Planning and Evaluation
- URP 6341: Urban Planning Project
- URP 6421: Environmental Impact Statements
- URP 6424: Sustainable Urbanism in the Americas
- URP 6428: Advanced Environmental Planning
- URP 6429: Natural Resources Planning and Management
- URP 6445: Planning for Climate Change
- URP 6526: Health and the Built Environment
- URP 6541: Economic Development Planning
- URP 6542: Urban Land Economics
- URP 6543: Seminar in Capital Improvement Finance
- URP 6547: Local Public Finance for Urban Planners
- URP 6601: State Planning
- URP 6603: Development Review
- URP 6610: International Development Planning
- URP 6716: Transportation Policy and Planning
- URP 6718: Bikeways Planning and Design
- URP 6745: Housing, Public Policy, and Planning
- URP 6746: Topical Debates in Housing
- URP 6821: Transportation and Land-Use Modeling
- URP 6871: Planning and Design I
- URP 6872: Planning and Design II
- URP 6880: Defensible Space and CPTED in Urban Design
- URP 6884: Community Conservation and Revitalization
- URP 6905: Exploration and Directed Study
- URP 6910: Supervised Research
- URP 6920: Colloquium
- URP 6931: Topical Seminar
- URP 6933: Planning Information Seminar
- URP 6940: Supervised Teaching
- URP 6941: Urban Planning Internship
- URP 6971: Research for Master's Thesis
- URP 6979: Terminal Project

College of Design, Construction, and Planning Courses

- DCP 6205: Ecological Issues in Sustainability and the Built Environment
- DCP 6211: Preservation Topics, Issues, and Practice
- DCP 6212: Sustainable Design Issues: Ecology, Architecture, and Planning
- DCP 6710: History and Theory of Historic Preservation
- DCP 6711: History of the Built Environment for Preservation Practice
- DCP 6712: Preservation Technology: Conserving Modern Buildings
- DCP 6713: Historic Preservation: Principles, Practice, and Engineering
- DCP 6714: Built Heritage Resources: Research, Documentation, And Conservation
- DCP 6715: Preservation Building Technology
- DCP 6716: Cultural Resource Management
- DCP 6730: Preservation Policy
- DCP 6905: Independent Study
- DCP 6931: Special Topics in Design, Construction, and Planning
- DCP 6943: Practicum in Historic Preservation
- DCP 6971: Research for Master's Thesis
- DCP 7790: Doctoral Core I

- DCP 7792: Doctoral Core II
- DCP 7794: Doctoral Seminar
- DCP 7911: Advanced Design, Construction, and Planning Research I
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

College of Education

Dean: G. Good.

Complete faculty listings: [Follow this link.](#)

Graduate study in education, allows individuals with bachelor's degrees in agriculture, business, education, engineering, mathematics, sciences, humanities, foreign languages, preprofessional studies and other fields to prepare for rewarding professional careers in education and related fields.

The College of Education offers 19 master's or specialist programs, 12 doctoral programs, and a J.D./Ph.D. program with the College of Law through its three schools: [Human Development and Organizational Studies in Education](#); [Special Education, School Psychology and Early Childhood Studies](#); and [School of Teaching and Learning](#).

Follow these links for more information about UF's College of Education graduate programs:

<http://education.ufl.edu/graduate-studies>

<http://education.ufl.edu/programs>

[Departments and Programs within the College of Education](#)

[College of Education Courses](#)

Other

Counseling and Counselor Education

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Counseling and Counselor Education Program

The doctoral program in Counseling and Counselor Education prepares students for careers in academia and advanced clinical and administrative positions. Our program aligns with the University of Florida mission to prepare the next generation of scholars and professional leaders. Thus, our doctoral program is a good fit for individuals who want to fulfill the roles of counselor educators – research, writing, teaching, service, securing external funding to support scholarship, assuming professional leadership positions, etc. The doctoral program is ideally suited for individuals with previously earned masters and at least two years of clinical experience. Doctoral students complete coursework, a doctoral clinical internship, participate in teaching and supervision, and conduct research leading to the completion of a dissertation. Students average 3 to 5 years to complete the doctorate, many of whom balance work and school commitments.

Degrees Offered with a Major in Counseling and Counselor Education

Doctor of Education

without a concentration

concentration in Marriage and Family Counseling

concentration in Mental Health Counseling

concentration in School Counseling and Guidance

Doctor of Philosophy

without a concentration

concentration in Marriage and Family Counseling

concentration in Mental Health Counseling

concentration in School Counseling and Guidance

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research

- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser

- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Curriculum and Instruction (CCD)

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Curriculum and Instruction

Doctor of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy

- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education

- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Curriculum and Instruction (ISC)

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Curriculum and Instruction

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty

- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Early Childhood Education

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in Early Childhood Education

Master of Arts in Education

Master of Education

Early Childhood Education Courses

- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6940: Supervised Teaching
- EEC 7056: Early Childhood Policy and Advocacy
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEC 7979: Advanced Research

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6946: Practicum in Early Childhood Education
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6053: Foundations of Special Education
- EEX 6098: Students with Disabilities in Higher Education
- EEX 6233: Designing Instruction for Inclusive Classrooms
- EEX 6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX 6785: Introduction to Education-Healthcare Transition
- EEX 6786: Transdisciplinary and Transition Services in Special Education
- EEX 6788: Methods for Integrating Education-Health Care Transition
- EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX 6841: Practicum in Special Education: Mild Disabilities
- EEX 6863: Supervised Practice in Special Education
- EEX 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

Educational Leadership

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Educational Leadership Program Information

Programs in Educational Leadership provide opportunities for professional educators and those who would like to be professional educators to receive quality coursework, mentorship, and degrees in educational administration, policy, and leadership. The programs provided are ideal for vice principals, principals, district directors and supervisors, assistant superintendents, school business managers, teachers aspiring to acquire administrative roles within the K-12 system and educational leaders of other organizations.

Degrees Offered with a Major in Educational Leadership

Doctor of Education

without a concentration

concentration in Educational Policy

Doctor of Philosophy

without a concentration

concentration in Educational Policy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship

- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research
- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
- EDG7222: Curriculum: Theory and Research
- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments
- EDH6503: Resource Development in Higher Education
- EDH6632: Current Issues in Community College Leadership
- EDH6637: Crisis Management in Higher Education
- EDH6931: Special Topics in Higher Education
- EDH6935: Seminar in College Student Personnel Administration
- EDH6945: Practicum in College Teaching I
- EDH6946: Practicum in College Teaching II
- EDH6947: Practicum in Student Personnel
- EDH7225: Seminar: Curriculum in Higher Education
- EDH7405: The Law and Higher Education
- EDH7505: The Financing of Higher Education
- EDH7631: Administration of Instruction in Higher Education
- EDH7634: Student Affairs Administration in Higher Education
- EDH7635: Higher Education Administration
- EDH7916: Contemporary Research on Higher Education
- EDH7942: Group Supervision in Student Personnel
- EDH7948: Internship in Student Personnel
- EDS6140: Supervision of Instruction
- MHS5005: Introduction to Counseling
- MHS6000: Assessment and Treatment of Family Violence
- MHS6020: Counseling in Community Settings
- MHS6061: Spiritual Issues in Multicultural Counseling
- MHS6071: Diagnosis and Treatment of Mental Disorders
- MHS6200: Assessment in Counseling
- MHS6340: Career Development
- MHS6401: Counseling Theories and Applications
- MHS6421: Play Counseling and Play Process with Children
- MHS6428: Multicultural Counseling
- MHS6430: Introduction to Family Counseling
- MHS6440: Marriage Counseling
- MHS6450: Substance Abuse Counseling
- MHS6464: Introduction to Disaster Mental Health Counseling
- MHS6466: Trauma and Crisis Intervention: Theory and Practice
- MHS6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS6468: Multicultural issues in disaster mental health counseling
- MHS6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS6471: Sexuality and Mental Health
- MHS6480: Developmental Counseling Over the Life Span
- MHS6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS6500: Group Counseling: Theories and Procedures
- MHS6602: Educational Mediation
- MHS6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS6720: Professional Identity and Ethics in Counseling
- MHS6831: Supervision for a Split Internship
- MHS6905: Individual Work
- MHS6910: Supervised Research
- MHS6940: Supervised Teaching
- MHS6971: Research for Master's Thesis

- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Elementary Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Elementary Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level

- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment

- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

English Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in English Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I

- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades

- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Higher Education Administration

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Higher Education Administration Program Information

The Higher Education Administration program has been established for students aspiring to become community college and university administrators, deans, presidents, and professors. America's community colleges and universities will soon face a critical leadership gap. As the baby boom generation approaches retirement age, many provosts, deans and college presidents are getting ready to add "emeritus" to their titles. As a result, openings in top leadership positions are expected to exceed the number of appropriately-trained individuals for many years to come.

The University of Florida's College of Education is helping fill the gap. Our nationally recognized Higher Education Administration Program prepares future leaders for their roles in administrative positions in higher education. Our faculty and alumni shaped the community and state college system as we know it, and our graduates have gone on to crucial administrative positions at two- and four- year institutions. Join us in shaping the future of higher education.

Degrees Offered with a Major in Higher Education Administration

Doctor of Education

without a concentration

concentration in Educational Policy

Doctor of Philosophy

without a concentration

concentration in Educational Policy

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics

- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research
- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
- EDG7222: Curriculum: Theory and Research
- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments
- EDH6503: Resource Development in Higher Education
- EDH6632: Current Issues in Community College Leadership
- EDH6637: Crisis Management in Higher Education
- EDH6931: Special Topics in Higher Education
- EDH6935: Seminar in College Student Personnel Administration
- EDH6945: Practicum in College Teaching I
- EDH6946: Practicum in College Teaching II
- EDH6947: Practicum in Student Personnel
- EDH7225: Seminar: Curriculum in Higher Education
- EDH7405: The Law and Higher Education
- EDH7505: The Financing of Higher Education
- EDH7631: Administration of Instruction in Higher Education
- EDH7634: Student Affairs Administration in Higher Education
- EDH7635: Higher Education Administration
- EDH7916: Contemporary Research on Higher Education
- EDH7942: Group Supervision in Student Personnel
- EDH7948: Internship in Student Personnel
- EDS6140: Supervision of Instruction
- MHS5005: Introduction to Counseling
- MHS6000: Assessment and Treatment of Family Violence
- MHS6020: Counseling in Community Settings
- MHS6061: Spiritual Issues in Multicultural Counseling
- MHS6071: Diagnosis and Treatment of Mental Disorders
- MHS6200: Assessment in Counseling
- MHS6340: Career Development
- MHS6401: Counseling Theories and Applications
- MHS6421: Play Counseling and Play Process with Children
- MHS6428: Multicultural Counseling
- MHS6430: Introduction to Family Counseling
- MHS6440: Marriage Counseling
- MHS6450: Substance Abuse Counseling
- MHS6464: Introduction to Disaster Mental Health Counseling
- MHS6466: Trauma and Crisis Intervention: Theory and Practice
- MHS6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS6468: Multicultural issues in disaster mental health counseling
- MHS6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS6471: Sexuality and Mental Health
- MHS6480: Developmental Counseling Over the Life Span
- MHS6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS6500: Group Counseling: Theories and Procedures
- MHS6602: Educational Mediation
- MHS6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS6720: Professional Identity and Ethics in Counseling
- MHS6831: Supervision for a Split Internship
- MHS6905: Individual Work
- MHS6910: Supervised Research
- MHS6940: Supervised Teaching
- MHS6971: Research for Master's Thesis
- MHS7402: Brief Therapy
- MHS7407: Advanced Counseling Theories

- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Marriage and Family Counseling

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Marriage and Family Counseling Program Information

The Marriage & Family Counseling/Therapy program specialization emphasizes an eco-systemic approach to understanding human problems and generating solution opportunities: Students learn to moderate solution-oriented conversations among interested parties (i.e., stakeholders) who are invited to seek "double descriptions" of mutual concerns and problems, to listen carefully to each other, to entertain and invent multiple solution possibilities, and to construct new narratives of cooperation and commitment.

Degrees Offered with a Major in Marriage and Family Counseling

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research
- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
- EDG7222: Curriculum: Theory and Research
- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments
- EDH6503: Resource Development in Higher Education
- EDH6632: Current Issues in Community College Leadership
- EDH6637: Crisis Management in Higher Education
- EDH6931: Special Topics in Higher Education
- EDH6935: Seminar in College Student Personnel Administration
- EDH6945: Practicum in College Teaching I
- EDH6946: Practicum in College Teaching II
- EDH6947: Practicum in Student Personnel
- EDH7225: Seminar: Curriculum in Higher Education
- EDH7405: The Law and Higher Education
- EDH7505: The Financing of Higher Education
- EDH7631: Administration of Instruction in Higher Education
- EDH7634: Student Affairs Administration in Higher Education
- EDH7635: Higher Education Administration
- EDH7916: Contemporary Research on Higher Education
- EDH7942: Group Supervision in Student Personnel
- EDH7948: Internship in Student Personnel
- EDS6140: Supervision of Instruction
- MHS5005: Introduction to Counseling
- MHS6000: Assessment and Treatment of Family Violence
- MHS6020: Counseling in Community Settings

- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
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- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
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- MHS 6602: Educational Mediation
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- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
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- MHS 7431: Advanced Family Counseling
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- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
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- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
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- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Mathematics Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Mathematics Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom

- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Mental Health Counseling

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Mental Health Counseling Program Information

The M.Ed./Ed.S. and M.AE./Ed.S. program in Mental Health Counseling is designed to equip students with the pre-professional competencies required for Registered Intern status and, after a minimum number of years of post-degree supervised clinical experience, (a) licensure in the State of Florida as Mental Health Counselors and (b) clinical membership in NBCC's Academy of Certified Clinical Mental Health Counselors. Additionally, some students may choose to continue their studies in a doctoral program. These students often elect the thesis option (M.A.E.) to complete their studies.

Degrees Offered with a Major in Mental Health Counseling

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education

- EDA 7945: Practicum in Supervision and Administration
- EDA 7979: Advanced Research
- EDA 7980: Research for Doctoral Dissertation
- EDA 7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research

- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

Reading Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Reading Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment

- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers

- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Research and Evaluation Methodology

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Research and Evaluation Methodology Program Information

The mission of the Research and Evaluation Methodology program is to generate, evaluate, apply and disseminate knowledge about educational research methodology, to prepare exemplary educational research methodologists, and to collaborate with others to provide methodology for the advancement of educational research. This mission aligns with College of Education's and University of Florida's missions because it results in research strategies for knowledge discovery to solve critical educational and human problems in a diverse global community.

- Learn to evaluate educational programs, analyze educational data, develop assessment instruments, and conduct research about the efficacy of research methodologies.
- Work as an educational researcher, an educational data analyst, or a psychometrician (an expert in testing and assessment).
- Find jobs in testing companies; research and evaluation companies; research centers; and assessment centers at universities, school districts, and state and federal agencies.
- Complete a master's degree (M.A.E. or M.Ed.) in two years or a Ph.D. in four years with classes focusing on research methodology, statistics applied to education, program evaluation, and psychometrics.
- We admit students with some undergraduate research experience. Our students come from a variety of backgrounds, including psychology, sociology, statistics, mathematics, mathematics education, political science, marketing, economics, and engineering.

Degrees Offered with a Major in Research and Evaluation Methodology

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Research and Evaluation Methodology

- EDF 5441: Assessment in General and Exceptional Student Education
- EDF 6113: Educational Psychology: Human Development
- EDF 6211: Educational Psychology: General
- EDF 6215: Educational Psychology: Learning Theory
- EDF 6232: Principles of Learning and Instructional Practice
- EDF 6400: Quantitative Foundations of Education Research Overview
- EDF 6401: Educational Statistics
- EDF 6402: Quantitative Foundations in Educational Research: Inferential Statistics
- EDF 6403: Quantitative Foundations of Educational Research
- EDF 6434: Educational Measurement
- EDF 6436: Theory of Measurement
- EDF 6471: Survey Design and Analysis in Educational Research
- EDF 6475: Qualitative Foundations of Educational Research
- EDF 6481: Quantitative Research Methods in Education
- EDF 6905: Individual Study
- EDF 6910: Supervised Research
- EDF 6938: Special Topics
- EDF 6940: Supervised Teaching
- EDF 6941: Practicum in Educational Research
- EDF 6971: Research for Master's Thesis
- EDF 7117: Affective Development and Education
- EDF 7405: Advanced Quantitative Foundations of Educational Research
- EDF 7412: Structural Equation Models
- EDF 7435: Rating Scale Design and Analysis in Educational Research
- EDF 7439: Item Response Theory
- EDF 7474: Multilevel Models
- EDF 7479: Qualitative Data Analysis: Approaches and Techniques
- EDF 7483: Qualitative Data Collection: Approaches and Techniques
- EDF 7486: Methods of Educational Research
- EDF 7491: Evaluation of Educational Products and Systems
- EDF 7639: Research in Educational Sociology
- EDF 7931: Seminar in Educational Research
- EDF 7932: Multivariate Analysis in Educational Research
- EDF 7979: Advanced Research
- EDF 7980: Research for Doctoral Dissertation
- EDP 6052: Cognitive Psychology Applied to Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education

- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel
- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling

- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

School Counseling and Guidance

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

School Counseling and Guidance Program Information

The M.Ed./Ed.S. and M.AE./Ed.S. program in School Counseling is designed to equip students with the pre-professional competencies required for Florida Department of Education Certification in School Counseling. The 72-credit hour program provides students with the specialized knowledge and skills required for placements as school counselors in public or private elementary, middle, or secondary schools.

Students enrolled in the School Counseling program, a state-approved and NCATE (National Council for the Accreditation of Teacher Education) and CACREP (Council for the Accreditation of Counseling and Related Educational Programs) accredited school counselor preparation program, must provide passing scores for all pertinent sections of the Florida Teacher Certification Examination (FTCE) including the General Knowledge test (math, English language skills, reading comprehension, and essay), the Professional Education examination, and the Subject Area Examination in Guidance and Counseling K-12 prior to graduation from the program. Questions about this requirement or any other certification related questions may be addressed to the College of Education Office of Student Services.

Degrees Offered with a Major in School Counseling and Guidance

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA5938: Special Topics
- EDA6061: Educational Organization and Administration
- EDA6107: Leading Change in Educational Organizations
- EDA6192: Educational Leadership: The Individual
- EDA6193: Educational Leadership: Instruction
- EDA6195: Educational Policy Development
- EDA6215: Communications in Educational Leadership
- EDA6222: Administration of School Personnel
- EDA6225: Labor Relations in Public Education
- EDA6232: Public School Law
- EDA6242: Public School Finance
- EDA6271: Technology Leadership for Educational Administrators
- EDA6423: Data-Driven Decision Making in Educational Organizations
- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF 7413: Advanced Topics in Structural Equation Modeling
- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EDG 6250: The School Curriculum
- EDG 6285: Evaluation in the School Program
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7222: Curriculum: Theory and Research
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7665: Bases of Curriculum and Instruction Theory
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EDH 6040: Theory of College Student Development
- EDH 6046: Diversity Issues in Higher Education
- EDH 6049: Domestic and International College Student Services
- EDH 6051: Educational Outcomes of American Colleges and Universities
- EDH 6053: The Community Junior College in America
- EDH 6066: American Higher Education
- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
- EDH 6360: Foundations and Functions of College Student Personnel
- EDH 6361: Theories and Assessment of Higher Educational Environments
- EDH 6503: Resource Development in Higher Education
- EDH 6632: Current Issues in Community College Leadership
- EDH 6637: Crisis Management in Higher Education
- EDH 6931: Special Topics in Higher Education
- EDH 6935: Seminar in College Student Personnel Administration
- EDH 6945: Practicum in College Teaching I
- EDH 6946: Practicum in College Teaching II
- EDH 6947: Practicum in Student Personnel

- EDH 7225: Seminar: Curriculum in Higher Education
- EDH 7405: The Law and Higher Education
- EDH 7505: The Financing of Higher Education
- EDH 7631: Administration of Instruction in Higher Education
- EDH 7634: Student Affairs Administration in Higher Education
- EDH 7635: Higher Education Administration
- EDH 7916: Contemporary Research on Higher Education
- EDH 7942: Group Supervision in Student Personnel
- EDH 7948: Internship in Student Personnel
- EDS 6140: Supervision of Instruction
- MHS 5005: Introduction to Counseling
- MHS 6000: Assessment and Treatment of Family Violence
- MHS 6020: Counseling in Community Settings
- MHS 6061: Spiritual Issues in Multicultural Counseling
- MHS 6071: Diagnosis and Treatment of Mental Disorders
- MHS 6200: Assessment in Counseling
- MHS 6340: Career Development
- MHS 6401: Counseling Theories and Applications
- MHS 6421: Play Counseling and Play Process with Children
- MHS 6428: Multicultural Counseling
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 6450: Substance Abuse Counseling
- MHS 6464: Introduction to Disaster Mental Health Counseling
- MHS 6466: Trauma and Crisis Intervention: Theory and Practice
- MHS 6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS 6468: Multicultural issues in disaster mental health counseling
- MHS 6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS 6471: Sexuality and Mental Health
- MHS 6480: Developmental Counseling Over the Life Span
- MHS 6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS 6500: Group Counseling: Theories and Procedures
- MHS 6602: Educational Mediation
- MHS 6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS 6720: Professional Identity and Ethics in Counseling
- MHS 6831: Supervision for a Split Internship
- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

School Psychology

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in School Psychology

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

School Psychology Courses

- SPS 6052: Issues and Problems in School Psychology
- SPS 6191: Psychoeducational Assessment I
- SPS 6192: Psychoeducational Assessment II
- SPS 6193: Academic Assessment & Intervention
- SPS 6195: Developmental Psychopathology
- SPS 6197: Psychoeducational Assessment III
- SPS 6410: Direct Interventions I: Applied Behavior Analysis for School Psychologists
- SPS 6707: Interventions in School Psychology II: Cognitive Behavioral Interventions
- SPS 6708: Interventions in School Psychology III: System Level Interventions for Children and Youths
- SPS 6815: Law and Ethics in Psychology
- SPS 6937: Special Topics in School Psychology
- SPS 6941: Practicum in School Psychology
- SPS 6942: School Psychology Practicum II
- SPS 6945: Advanced Practicum in School Psychology
- SPS 7205: School Psychology Consultation
- SPS 7931: Seminar in School Psychology
- SPS 7949: Internship in School Psychology
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6946: Practicum in Early Childhood Education
- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6053: Foundations of Special Education

- EEX6098: Students with Disabilities in Higher Education
- EEX6233: Designing Instruction for Inclusive Classrooms
- EEX6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX6785: Introduction to Education-Healthcare Transition
- EEX6786: Transdisciplinary and Transition Services in Special Education
- EEX6788: Methods for Integrating Education-Health Care Transition
- EEX6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX6841: Practicum in Special Education: Mild Disabilities
- EEX6863: Supervised Practice in Special Education
- EEX7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

Science Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Science Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning
- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development

- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School

- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching
- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Social Studies Education

College

[College of Education](#)

Department/School

[School of Teaching and Learning](#)

Degrees Offered with a Major in Social Studies Education

Master of Arts in Education

Master of Education

Teaching and Learning Departmental Courses

- EDG 5666: Knowing and Learning in STEM
- EDG 6017: Writing for Academic Purposes
- EDG 6225: Global Studies Methods in K-12 Education
- EDG 6348: Instructional Coaching for Enhanced Student Learning
- EDG 6445: Meeting the Educational Needs of Students Living in Poverty
- EDG 7359: Professional Development and Teacher Learning

- EEC 6946: Practicum in Early Childhood Education
- EME 6059: Blended Learning Environments
- MAE 6916: Inquiry in Mathematics Teaching

General Courses

- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6226: Foundations of Research in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 6905: Individual Work
- EDG 6910: Supervised Research
- EDG 6931: Special Topics
- EDG 6940: Supervised Teaching
- EDG 6971: Research for Master's Thesis
- EDG 6973: Project in Lieu of Thesis
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
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- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7941: Field Experience in Curriculum and Instruction
- EDG 7979: Advanced Research
- EDG 7980: Research for Doctoral Dissertation
- EME 6076: Virtual School Philosophy and Pedagogy
- EME 6156: Games and Simulations for Teaching and Learning
- EME 6235: Managing Educational Projects
- EME 6236: Distance Education Leadership and Management

Curriculum, Teaching, and Teacher Education

- EDE 5940: Integrated Teaching and Learning
- EDE 6225: Practices in Childhood Education
- EDE 6266: Teaching and Learning in Elementary Classrooms
- EDE 6325: Teacher Inquiry/Action Research
- EDE 6905: Individual Work
- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
- EDE 7935: Seminar in Curriculum & Instruction
- EDG 6356: Teaching, Learning and Assessment
- EDG 7224: Critical Pedagogy
- EDG 7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG 7303: Teacher Learning and Socialization in High Poverty Schools
- EDG 7326: Differentiated Supervision and Teacher Professional Development
- EDG 7982: Practitioner Research: Theory & Practice

Educational Technology

- EME 5054: Foundations of Educational Technology
- EME 5207: Designing Technology-Rich Curricula
- EME 5315: Communicating with Technology
- EME 5316: Educational Technology Management Issues
- EME 5403: Instructional Computing I
- EME 5404: Instructional Computing II
- EME 5405: Internet in K-12 Instruction
- EME 5431: Integrating Technology in the Mathematics Classroom
- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
- EME 6066: Issues and Trends in Educational Technology Research
- EME 6205: Digital Photography and Visual Literacy
- EME 6208: Designing Integrated Media Environments I
- EME 6209: Designing Integrated Media Environments II
- EME 6405: Educational Technology and Teaching
- EME 6458: Distance Teaching and Learning
- EME 6505: Educational Television Design and Production
- EME 6602: Human-Computer Interactivity and the Learner
- EME 6606: Advanced Instructional Design
- EME 6609: Instructional Design
- EME 6716: Organization and Administration of Educational Media Centers
- EME 6935: Seminar: Distance Education Issues and Applications
- EME 6945: Practicum in Educational Media and Instructional Design
- EME 7938: Seminar in Educational Media and Instructional Design

ESOL/Bilingual Education

- FLE 6165: Bilingual-Bicultural Education
- FLE 6167: Cross-Cultural Communication for Teachers
- FLE 6336: Teaching Foreign Languages in Elementary Schools
- FLE 6337: Methods of Teaching and Assessing Foreign Language in Secondary School
- FLE 6385: Foreign Languages Teaching Methods
- FLE 6946: Practicum in Teaching and Assessing Foreign Languages at Secondary Level
- TSL 5142: ESOL Curriculum, Methods, and Assessment
- TSL 5325: Secondary ESOL Teaching Strategies
- TSL 6145: Curriculum and Materials Development for ESOL K-12
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6245: Language Principles for ESOL Teachers
- TSL 6373: Methods of Teaching ESOL K-12
- TSL 6440: Testing and Evaluation of ESOL
- TSL 6700: Issues in ESOL for School Counselors and Psychologists

Language and Literacy Education

- LAE 6298: Literacy & Language Instruction
- LAE 6319: Language Arts in the Elementary School
- LAE 6339: Curriculum, Methods, and Assessment in Secondary English Language Arts
- LAE 6348: Teaching Multiliteracies
- LAE 6365: Language Arts: Language and Composition
- LAE 6366: Language Arts: Literature
- LAE 6407: Early Childhood Children's Literature
- LAE 6446: Multicultural Literature for Children and Adolescents
- LAE 6447: Immigrant Experiences in Children's and Adolescent Literature
- LAE 6455: International Children's Literature
- LAE 6616: Seminar in Children's Literature
- LAE 6635: Teaching Adolescent Literature in the Secondary School
- LAE 6714: Children's Literature in the Childhood Curriculum
- LAE 6861: Technology and Media Literacy
- LAE 6865: Teaching Media Literacy with the Internet
- LAE 6869: Teaching Digital Storytelling
- LAE 6939: Literacy, Family, and Culture
- LAE 6945: Practicum and Assessment for Teachers of Secondary School English
- LAE 6946: Children's Literature in Educational Settings
- LAE 7006: Language Acquisition and Education
- LAE 7519: Language and Inquiry
- LAE 7715: Research in Children's Literature
- LAE 7934: Seminar in Composition Theory and Practice
- LAE 7936: Seminar in English Language Arts

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- MAE 5396: Using Formative Assessment to Improve Mathematical Learning
- MAE 5347: Teaching K-8 Mathematics for Understanding
- MAE 5945: Secondary School Mathematics Practicum
- MAE 6313: Problem Solving in School Mathematics
- MAE 6615: Individualizing Instruction in Mathematics
- MAE 6641: Readings and Research in Mathematics Education
- MAE 7899: Mathematics Education Seminar

Reading Education

- RED 5046: Foundations of Reading in Grades PreK-12
- RED 5316: Reading in the Primary Grades
- RED 5337: Reading in the Secondary School
- RED 5355: Reading Instruction in the Intermediate Grades
- RED 5399: Practices in Beginning Reading Instruction
- RED 6346: Seminar in Reading
- RED 6520: Classroom Literacy Assessment and Instruction
- RED 6546C: Diagnosis of Reading Difficulties
- RED 6548C: Remediation of Reading Difficulties
- RED 6647: Trends in Reading
- RED 6941: Practicum in Diagnosis and Remediation of Reading Difficulties
- RED 7019: Foundations of Literacy
- RED 7817: Understanding Reading Difficulties

Science Education

- SCE 5316: Inquiry-Based Science Teaching

- SCE 5355: Foundations of Science Teaching
- SCE 5695: Diversity and Equity in Science Teaching
- SCE 5765: Data-Driven Science Instruction
- SCE 6045: Environmental Education Methods and Materials
- SCE 6117: Science Education in the Elementary School
- SCE 6246: Science Instruction in Informal Settings
- SCE 6338: Secondary Science Methods and Assessment
- SCE 6647: Global Studies Methods in Science Education
- SCE 6947: Practicum in Secondary Science Teaching and Assessment

Secondary Education

- EDM6005: The Emergent Middle School
- EDM6235: Interdisciplinary Planning, Teaching, and Assessment
- ESE 6215: The Secondary School Curriculum
- ESE 6344: Classroom Practices and Assessment in Secondary Education
- ESE 6345: Effective Teaching and Classroom Management
- ESE 6905: Individual Work
- ESE 6939: Special Topics
- ESE 6945: Student Teaching in Secondary School

Social Foundations of Education

- EDF 5552: Role of School in Democratic Society
- EDF 6520: History of Education
- EDF 6544: Philosophical Foundations of Education
- EDF 6606: Socioeconomic Foundations of Education
- EDF 6616: Education and American Culture
- EDF 6630: Educational Sociology
- EDF 6812: Comparative Education
- EDF 6820: Education in Latin America
- EDF 7555: Values and Ethics in Education
- EDF 7934: Seminar in Educational Foundations

Social Studies Education

- SSE 5320: Middle School Social Studies Methods
- SSE 5945C: Practicum in Secondary Social Studies Teaching and Assessment
- SSE 6046: Perspectives in Social Studies Education
- SSE 6117: Social Studies Education—Elementary School
- SSE 6133: Secondary School Social Studies Methods and Assessment
- SSE 6478: Global Studies Methods in Social Studies

Teacher Leadership for School Improvement

- EDE 6325: Teacher Inquiry/Action Research
- EDG 6047: Teacher Leadership for Educational Change
- EDG 6207: Transforming the Curriculum
- EDG 6415: Culturally Responsive Classroom Management
- EDG 6953: TLSI Online Portfolio Preparation

Special Education

College

[College of Education](#)

Department/School

[Special Education, School Psychology and Early Childhood Studies Department](#)

Degrees Offered with a Major in Special Education

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in Education

Special Education Courses

- EEX5940: Supervised Student Teaching in Special Education
- EEX6053: Foundations of Special Education
- EEX6072: Accessing Academic and Social Communities for Students with Disabilities
- EEX6125: Interventions for Language and Learning Disabilities
- EEX6219: Reading Assessment and Intervention for Students with Disabilities
- EEX6222: Evaluation in Special Education
- EEX6233: Designing Instruction for Inclusive Classrooms
- EEX6234: Assessment, Curriculum, and Instruction for Students with Severe Disabilities
- EEX6249: Advanced Strategies for Teaching Students with Disabilities
- EEX6661: Teaching and Managing Behavior for Student Learning
- EEX6750: Families and Transition for Students with Disabilities
- EEX6786: Transdisciplinary and Transition Services in Special Education
- EEX6835: Practicum in Special Education: Severe Disabilities
- EEX6841: Practicum in Special Education: Mild Disabilities
- EEX6863: Supervised Practice in Special Education
- EEX6905: Individual Work
- EEX6910: Supervised Research
- EEX6936: Special Topics
- EEX6940: Supervised Teaching
- EEX6971: Research for Master's Thesis
- EEX6973: Project in Lieu of Thesis
- EEX6296: Differentiated Instruction
- EEX7303: Inquiry in Special Education: Analysis of the Literature
- EEX7304: Introduction to Field of Inquiry in Special Education
- EEX7526: Grant Writing Seminar in Education
- EEX7787: School Improvement for All Students
- EEX7865: Internship: Special Education
- EEX7428: Teacher Education in Special Education
- EEX7934: Seminar: Trends in Special Education
- EEX7979: Advanced Research
- EEX7980: Research for Doctoral Dissertation
- EGI 6051: Education of the Gifted Child
- EGI 6245: Program Development for the Gifted

Special Education, School Psychology and Early Childhood Studies Departmental Courses

- EDF 7482: Quasi-experimental Design and Analysis in Educational Research
- EEC 6205: Early Childhood Curriculum
- EEC 6304: Creativity in the Early Childhood Curriculum
- EEC 6525: Issues in Child Care Administration
- EEC 6615: Early Childhood Education: Background and Concepts
- EEC 6905: Individual Work
- EEC 6910: Supervised Research
- EEC 6933: Special Topics
- EEC 6946: Practicum in Early Childhood Education

- EEC 7617: Early Childhood Assessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6053: Foundations of Special Education
- EEX 6098: Students with Disabilities in Higher Education
- EEX 6233: Designing Instruction for Inclusive Classrooms
- EEX 6269: Academic Strategies for Postsecondary Students with Disabilities
- EEX 6299: Understanding Assessment for Postsecondary Students with Disabilities
- EEX 6777: Organizational and Life Skills for Postsecondary Students with Disabilities
- EEX 6785: Introduction to Education-Healthcare Transition
- EEX 6786: Transdisciplinary and Transition Services in Special Education
- EEX 6788: Methods for Integrating Education-Health Care Transition
- EEX 6789: Legal Aspects and Policy in Education-Healthcare Transition
- EEX 6817: Seminar in Education-Healthcare Transition (E-HCT)
- EEX 6841: Practicum in Special Education: Mild Disabilities
- EEX 6863: Supervised Practice in Special Education
- EEX 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

Student Personnel in Higher Education

College

[College of Education](#)

Department/School

[Human Development and Organizational Studies in Education Department](#)

Student Personnel in Higher Education Program Information

The University of Florida Student Personnel in Higher Education program is a master's program designed to prepare students to enter Student Affairs leadership positions in two- and four-year institutions of higher education. The program integrates academic coursework with practitioner-based experience. The SPHE master's degree consists of 36 credit hours of core classes and 10 credit hours of supervised practicum and internship experiences (total = 46 credit hours). Students enter the graduate program in the fall semester as members of a cohort group. The group provides support and builds a sense of community for the students. All students are assigned a faculty advisor at the time of admission.

The student affairs profession is increasingly diverse and is engaged in a variety of activities and programs. The emphasis in UF's master's degree program in SPHE is upon the promotion, design, and assessment of student learning in a variety of campus and community settings.

Degrees Offered with a Major in Student Personnel in Higher Education

Master of Arts in Education

Master of Education

Human Development and Organizational Studies in Education Departmental Courses

- EDA 5938: Special Topics
- EDA 6061: Educational Organization and Administration
- EDA 6107: Leading Change in Educational Organizations
- EDA 6192: Educational Leadership: The Individual
- EDA 6193: Educational Leadership: Instruction
- EDA 6195: Educational Policy Development
- EDA 6215: Communications in Educational Leadership
- EDA 6222: Administration of School Personnel
- EDA 6225: Labor Relations in Public Education
- EDA 6232: Public School Law
- EDA 6242: Public School Finance
- EDA 6271: Technology Leadership for Educational Administrators
- EDA 6423: Data-Driven Decision Making in Educational Organizations

- EDA6503: The Principalship
- EDA6905: Individual Work
- EDA6931: Special Topics
- EDA6935: Problems in School Administration and Supervision
- EDA6948: Supervised Practice in School Administration
- EDA6971: Research for Master's Thesis
- EDA7206: Organizational Leadership in Education
- EDA7945: Practicum in Supervision and Administration
- EDA7979: Advanced Research
- EDA7980: Research for Doctoral Dissertation
- EDA7985: Research Design in Educational Administration
- EDF7413: Advanced Topics in Structural Equation Modeling
- EDF7482: Quasi-experimental Design and Analysis in Educational Research
- EDG6250: The School Curriculum
- EDG6285: Evaluation in the School Program
- EDG6356: Teaching, Learning and Assessment
- EDG6905: Individual Work
- EDG6910: Supervised Research
- EDG6931: Special Topics
- EDG6940: Supervised Teaching
- EDG6971: Research for Master's Thesis
- EDG6973: Project in Lieu of Thesis
- EDG7222: Curriculum: Theory and Research
- EDG7252: Perspectives in Curriculum, Teaching, and Teacher Education
- EDG7665: Bases of Curriculum and Instruction Theory
- EDG7941: Field Experience in Curriculum and Instruction
- EDG7979: Advanced Research
- EDG7980: Research for Doctoral Dissertation
- EDH6040: Theory of College Student Development
- EDH6046: Diversity Issues in Higher Education
- EDH6049: Domestic and International College Student Services
- EDH6051: Educational Outcomes of American Colleges and Universities
- EDH6053: The Community Junior College in America
- EDH6066: American Higher Education
- EDH6067: Seminar: International Higher Education
- EDH6305: College and University Teaching
- EDH6360: Foundations and Functions of College Student Personnel
- EDH6361: Theories and Assessment of Higher Educational Environments
- EDH6503: Resource Development in Higher Education
- EDH6632: Current Issues in Community College Leadership
- EDH6637: Crisis Management in Higher Education
- EDH6931: Special Topics in Higher Education
- EDH6935: Seminar in College Student Personnel Administration
- EDH6945: Practicum in College Teaching I
- EDH6946: Practicum in College Teaching II
- EDH6947: Practicum in Student Personnel
- EDH7225: Seminar: Curriculum in Higher Education
- EDH7405: The Law and Higher Education
- EDH7505: The Financing of Higher Education
- EDH7631: Administration of Instruction in Higher Education
- EDH7634: Student Affairs Administration in Higher Education
- EDH7635: Higher Education Administration
- EDH7916: Contemporary Research on Higher Education
- EDH7942: Group Supervision in Student Personnel
- EDH7948: Internship in Student Personnel
- EDS6140: Supervision of Instruction
- MHS5005: Introduction to Counseling
- MHS6000: Assessment and Treatment of Family Violence
- MHS6020: Counseling in Community Settings
- MHS6061: Spiritual Issues in Multicultural Counseling
- MHS6071: Diagnosis and Treatment of Mental Disorders
- MHS6200: Assessment in Counseling
- MHS6340: Career Development
- MHS6401: Counseling Theories and Applications
- MHS6421: Play Counseling and Play Process with Children
- MHS6428: Multicultural Counseling
- MHS6430: Introduction to Family Counseling
- MHS6440: Marriage Counseling
- MHS6450: Substance Abuse Counseling
- MHS6464: Introduction to Disaster Mental Health Counseling
- MHS6466: Trauma and Crisis Intervention: Theory and Practice
- MHS6467: Disaster Mental Health Counseling and Vulnerable Populations
- MHS6468: Multicultural issues in disaster mental health counseling
- MHS6469: Traumatic Stress and Disaster Mental Health Counseling
- MHS6471: Sexuality and Mental Health
- MHS6480: Developmental Counseling Over the Life Span
- MHS6495: Counseling Lesbian, Gay, Bisexual, and Transgender Clients
- MHS6500: Group Counseling: Theories and Procedures
- MHS6602: Educational Mediation
- MHS6705: Professional, Ethical, and Legal Issues in Marriage and Family Counseling
- MHS6720: Professional Identity and Ethics in Counseling
- MHS6831: Supervision for a Split Internship
- MHS6905: Individual Work
- MHS6910: Supervised Research
- MHS6940: Supervised Teaching

- MHS 6971: Research for Master's Thesis
- MHS 7402: Brief Therapy
- MHS 7407: Advanced Counseling Theories
- MHS 7431: Advanced Family Counseling
- MHS 7600: Consultation Procedures
- MHS 7610: Practicum in Counseling Supervision
- MHS 7730: Seminar in Counseling Research
- MHS 7740: Research in Counseling
- MHS 7800: Practicum in Counseling
- MHS 7804: Group Supervision in Agency Counseling
- MHS 7805: Practicum in Agency Counseling
- MHS 7806: Practicum in Marriage and Family Counseling
- MHS 7807: Group Supervision in Marriage and Family Counseling
- MHS 7830: Internship in Counseling and Development-600 Hours
- MHS 7840: Internship in Counselor Education
- MHS 7946: Internship in Agency Program Management
- MHS 7979: Advanced Research
- MHS 7980: Research for Doctoral Dissertation
- SDS 6401: Counseling Skills for Non-Counselors
- SDS 6411: Counseling with Children
- SDS 6413: Counseling Adolescents
- SDS 6436: Family-School Intervention
- SDS 6520: Family, Student Development and Role of Teacher as Adviser
- SDS 6620: Organization and Administration of School Counseling Programs
- SDS 6831: Supervision for a Split Internship
- SDS 6905: Individual Work
- SDS 6936: Seminar in Counselor Education
- SDS 6938: Special Topics
- SDS 7800: Practicum in School Counseling
- SDS 7820: Group Supervision in School Counseling
- SDS 7830: Internship in Counseling and Development-600 Hours

College of Engineering

Dean: C. Abernathy

Complete faculty listings: [Follow this link.](#)

The College of Engineering is organized into a number of departments focusing on today's most pressing engineering questions. There is an interdisciplinary culture at the core of Gator Engineering, though, and researchers regularly collaborate with colleagues in departments and colleges beyond their own.

For more information, please see our website: <http://www.eng.ufl.edu>

[Departments and Programs within the College of Engineering](#)

[College of Engineering Courses](#)

Other

Aerospace Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Aerospace Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics
- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
- EAS 6910: Supervised Research
- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
- EGM5533: Applied Elasticity and Advanced Mechanics of Solids
- EGM5584: Biomechanics of Soft Tissue
- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III
- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials
- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
- EGM7980: Research for Doctoral Dissertation
- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics
- EML 5124: Two-Phase Flow and Boiling Heat Transfer
- EML 5131: Combustion
- EML 5215: Analytical Dynamics I
- EML 5223: Structural Dynamics
- EML 5224: Acoustics
- EML 5233: Failure of Materials in Mechanical Design
- EML 5311: Control System Theory
- EML 5318: Computer Control of Machines and Processes
- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers
- EML 5515: Gas Turbines and Jet Engines
- EML 5516: Design of Thermal Systems
- EML 5526: Finite Element Analysis and Application
- EML 5595: Mechanics of the Human Locomotor System
- EML 5598: Orthopedic Biomechanics
- EML 5605: Advanced Refrigeration
- EML 5714: Introduction to Compressible Flow
- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II
- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I

- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control
- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
- EML 6451: Energy Conversion
- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Agricultural and Biological Engineering (Engineering)

College

- [College of Agricultural and Life Sciences](#)
- [College of Engineering](#)

Department/School

[Agricultural and Biological Engineering Department](#)

Agricultural and Biological Engineering Program

The degrees of Master of Science, Master of Engineering, and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering through the College of Engineering. The Master of Science and Doctor of Philosophy degrees in agricultural and biological engineering are offered in the areas of agricultural operations management and applied science through the College of Agricultural and Life Sciences.

Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Additional information can also be found on the graduate studies pages on the department website at www.abe.ufl.edu.

A combined B.S./M.S. program allows up to 12 graduate credits to be double counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details. A 30-credit, 3-semester nonthesis master's degree program is also available to students interested in completing the requirements in 1 year.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production includes development and application of precision agriculture concepts and tools, climate risk in agriculture, pesticide application, robotics and other machine systems and environmental control systems. Applications to space agriculture are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes post-harvest operations, bioprocess design, plant biotechnology, process microbiology, food process engineering, environmental biotechnology, bioreactors, and packaging science.

Information systems includes development and application of GIS and remote sensing, communications, mathematical modeling, environmental decision analysis and expert systems techniques to biological and agricultural systems.

Land and water resources includes soil-water-plant relations, irrigation, water quality, watershed hydrology, BMP and TMDL studies, hydrologic modeling, ecological restoration, environmental fate and transport of nanoparticles, waste management, ecological and risk modeling and water reuse.

Students also may choose to participate in interdisciplinary concentrations in hydrologic sciences, geographic information sciences, particle science and technology, and interdisciplinary ecology.

The Master of Science and Doctor of Philosophy in the agricultural operations management area of specialization provide for scientific training and research in technical agricultural management. Typical plans of study focus on advanced training in environmental systems management, production systems management, construction and process management and technical sales management.

For students with basic science degrees, the Doctor of Philosophy program with a specialization in applied sciences through the College of Agricultural and Life Sciences provides advanced training in problem-solving capabilities, interdisciplinary research, and methods for applying science to real-world problems and issues. Typical emphasis is on (1) the use of engineering methods and approaches, such as mathematical modeling, optimization, and information technologies, in application of science to problems of various spatial and temporal scales; and (2) an

interdisciplinary experience in research at the doctoral level.

The requirements for a master's degree normally take 2 years to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, but normally takes 3 to 4 years.

Degrees Offered with a Major in Agricultural and Biological Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Agricultural and Biological Engineering Courses

- ABE 5015: Empirical Models of Crop Growth and Yield Response
- ABE 5038: Recent Developments and Applications in Biosensors
- ABE 5152: Electro-Hydraulic Circuits and Controls
- ABE 5332: Advanced Agricultural Structures
- ABE 5442: Advanced Agricultural Process Engineering
- ABE 5643C: Biological Systems Modeling
- ABE 5646: Biological and Agricultural Systems Simulation
- ABE 5653: Rheology and Mechanics of Agricultural and Biological Materials
- ABE 5663: Advanced Applied Microbial Biotechnology
- ABE 5707C: Agricultural Waste Management
- ABE 5815C: Food and Bioprocess Engineering Design
- ABE 6005: Applied Control for Automation and Robots
- ABE 6031: Instrumentation in Agricultural Engineering Research
- ABE 6035: Advanced Remote Sensing: Science and Sensors
- ABE 6037C: Remote Sensing in Hydrology
- ABE 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6265: Vadose Zone Modeling
- ABE 6266: Nanotechnology in Water Research
- ABE 6615: Advanced Heat and Mass Transfer in Biological Systems
- ABE 6644: Agricultural Decision Systems
- ABE 6816: Food and Bioprocess Sterilization
- ABE 6905: Individual Work in Agricultural and Biological Engineering
- ABE 6910: Supervised Research
- ABE 6931: Seminar
- ABE 6933: Special Topics in Agricultural and Biological Engineering
- ABE 6940: Supervised Teaching
- ABE 6971: Research for Master's Thesis
- ABE 6972: Research for Engineer's Thesis
- ABE 6974: Nonthesis Project
- ABE 6986: Applied Mathematics in Agricultural and Biological Engineering
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- AOM5334C: Agricultural Chemical Application Technology
- AOM5431: GIS and Remote Sensing in Agriculture and Natural Resources
- AOM5435: Advanced Precision Agriculture
- AOM6905: Individual Work in Agricultural Operations Management
- AOM6932: Special Topics in Agricultural Operations Management
- CWR 6536: Stochastic Subsurface Hydrology
- PKG 5003: Advanced Distribution and Transport Packaging
- PKG 5006: Advanced Packaging Principles
- PKG 5105: Advanced Consumer Products Packaging
- PKG 5206C: Advanced Package Decoration
- PKG 5256C: Advanced Analytical Packaging Methods
- PKG 6100: Advanced Computer Tools for Packaging
- PKG 6905: Individual Work in Packaging
- PKG 6932: Special Topics in Packaging Sciences

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Biomedical Engineering

College

[College of Engineering](#)

Department/School

[Biomedical Engineering Department](#)

Biomedical Engineering Program Information

The master's degree (thesis or nonthesis) requires at least 30 semester hours. The Ph.D. degree requires at least 90 semester credit hours beyond the bachelor's degree. No more than 30 hours of a master's degree from another institution will be transferred to the Ph.D. degree. If a student holds a master's degree in a discipline different from the doctoral program, the master's work will not be counted toward the doctoral degree unless the BME Department successfully petitions the Dean of the Graduate School. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Complete BME program details and courses available are listed in the Biomedical Engineering Graduate Guidelines, on the [BME web site](#) (which also offers information on available areas of study). Graduate-level courses in either the College of Engineering or the College of Medicine may be applied toward the BME degree programs with the approval of the supervisory committee chair and the graduate coordinator.

Combined program: Biomedical Engineering also offers a combined bachelor's/master's degree program in collaboration with the other departments in the College of Engineering. This program allows qualified students to earn both a bachelor's degree and a master's degree within 5 years for a net savings of 1 year. Contact the BME academic services office for more information or see <http://www.bme.ufl.edu/academics/combined>.

Degrees Offered with a Major in Biomedical Engineering

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Medical Physics

Master of Engineering

Master of Science

without a concentration

concentration in Medical Physics

Courses

- BME 5052L: Biomedical Engineering Laboratory
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BME 5407: Molecular Biomedical Engineering
- BME 5500: Biomedical Instrumentation
- BME 5703: Statistical Methods for Biomedical Engineering
- BME 5704: Advanced Computational Methods for Biomedical Engineering
- BME 5937: Special Topics
- BME 6010: Clinical Preceptorship
- BME 6324: Stem Cell Engineering
- BME 6330: Cell and Tissue Engineering
- BME 6360: Neural Engineering
- BME 6502: Introduction to Medical Imaging
- BME 6505: Advanced Diagnostic Radiological Physics
- BME 6522: Biomedical Multivariate Signal Processing
- BME 6533: Radiologic Anatomy
- BME 6534: Advanced Therapeutic Radiological Physics
- BME 6535: Radiological Physics, Measurements and Dosimetry
- BME 6590: Medical Physics
- BME 6591: Therapeutic Radiological Physics I
- BME 6592: Therapeutic Radiological Physics II
- BME 6593: Therapeutic Radiological Physics III
- BME 6705: Mathematical Modeling of Biological and Physiological Systems
- BME 6905: Individual Work in Biomedical Engineering
- BME 6907: BME Project
- BME 6910: Supervised Research
- BME 6936: Biomedical Engineering Seminar
- BME 6938: Special Topics in Biomedical Engineering
- BME 6940: Supervised Teaching
- BME 6971: Research for Master's Thesis
- BME 7979: Advanced Research
- BME 7980: Research for Doctoral Dissertation
- EEE 6504: Adaptive Signal Processing
- EEE 6512: Image Processing and Computer Vision
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology
- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure

College of Engineering and College of Medicine Courses

- [Click here for information about available College of Engineering courses.](#)

Chemical Engineering

College

[College of Engineering](#)

Department/School

[Chemical Engineering Department](#)

Degrees Offered with a Major in Chemical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- BME 6221: Biomolecular Cell Mechanics
- BME 6322: Dynamics of Cellular Processes
- ECH 5708: Disinfection, Sterilization, and Preservation
- ECH 5938: Topics in Colloid Science
- ECH 6126: Thermodynamics of Reaction and Phase Equilibria
 - ECH 6207
- ECH 6270: Continuum Basis of Chemical Engineering
- ECH 6272: Molecular Basis of Chemical Engineering
- ECH 6285: Transport Phenomena
- ECH 6326: Computer Control of Processes
- ECH 6506: Chemical Engineering Kinetics
- ECH 6526: Reactor Design and Optimization
- BME 6644: Pharmacokinetics
- ECH 6709: Electrochemical Engineering Fundamentals and Design
- ECH 6726: Interfacial Phenomena I
- ECH 6727: Interfacial Phenomena II
- ECH 6843: Experimental Basis of Chemical Engineering
- ECH 6847: Mathematical Basis of Chemical Engineering
- ECH 6851: Impedance Spectroscopy
- ECH 6905: Individual Work
- ECH 6910: Supervised Research
- ECH 6926: Graduate Seminar
- ECH 6937: Topics in Chemical Engineering I
- ECH 6939: Topics in Chemical Engineering III
- ECH 6940: Supervised Teaching
- ECH 6971: Research for Master's Thesis
 - ECH 6XXX
- ECH 7938: Advanced Special Chemical Engineering Topics for Doctoral Candidates
- ECH 7979: Advanced Research
- ECH 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Civil Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Civil Engineering Program

The civil engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy. The master's degree in civil engineering is also offered through the Electronic Delivery of Graduate Engineering (EDGE) program, which is a distance learning program delivered either via streaming video or DVD directly to the students. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Civil Engineering

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CCE 5035: Construction Planning and Scheduling
- CCE 5405: Construction Equipment and Procedures
- CCE 6037: Civil Engineering Operations I
- CCE 6038: Innovative Construction Techniques
- CCE 6505: Computer Applications in Construction Engineering
- CCE 6507: Computer Applications in Construction Engineering II
- CCE 6516: Topics in Airborne Laser Mapping Technology
- CEG 5105: Geotechnical Engineering
- CEG 5114: Advanced Geotechnical Aspects of Landfill Design
- CEG 5115: Foundation Design
- CEG 5205C: In situ Measurement of Soil Properties
- CEG 5206: Geosensing I
- CEG 5805: Ground Modification Design
- CEG 6015: Advanced Soil Mechanics
- CEG 6116: Advanced Shallow Foundation Design
- CEG 6117: Advanced Deep Foundation Design
- CEG 6201: Experimental Determination of Soil Properties
- CEG 6207: Geosensing II
- CEG 6405: Seepage in Soils
- CEG 6505: Numerical Methods of Geomechanics
- CEG 6515: Earth Retaining Systems and Slope Stability
- CES 5010: Probabilistic and Stochastic Methods in Civil Engineering
- CES 5116: Finite Elements in Civil Engineering
- CES 5325: Design of Highway Bridges
- CES 5606: Topics in Steel Design
- CES 5607: Behavior of Steel Structures
- CES 5715: Prestressed Concrete
- CES 5726: Design of Concrete Systems
- CES 5801: Design and Construction in Timber
- CES 5835: Design of Reinforced Masonry Structures
- CES 6106: Advanced Structural Analysis
- CES 6108: Structural Dynamics
- CES 6165: Computer Methods in Structural Engineering
- CES 6551: Design of Folded Plates and Shells
- CES 6588: Protective Structures
- CES 6590: Impact Engineering
- CES 6591: Applied Protective Structures
- CES 6592: Retrofit Protective Structures
- CES 6593: Advanced Protective Structures
- CES 6706: Advanced Reinforced Concrete
- CES 6855: Condition Assessment of Structures
- CGN 5606: Public Works Management
- CGN 5715: Experimentation and Instrumentation in Civil Engineering Materials Research
- CGN 6155: Civil Engineering Practice I
- CGN 6156: Construction Engineering II
- CGN 6505: Properties, Design and Control of Concrete
- CGN 6506: Bituminous Materials
- CGN 6525: Sustainable Materials
- CGN 6905: Special Problems in Civil Engineering

- CGN 6910: Supervised Research
- CGN 6936: Civil Engineering Graduate Seminar
- CGN 6940: Supervised Teaching
- CGN 6971: Research for Master's Thesis
- CGN 6972: Research for Engineer's Thesis
- CGN 6974: Master of Engineering or Engineer Degree Report
- CGN 7979: Advanced Research
- CGN 7980: Research for Doctoral Dissertation
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6236: Sediment Transport I
- CWR 6255: Diffusive and Dispersive Transport
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- TTE 5305: Advanced Transportation Systems Analysis
- TTE 5006: Advanced Urban Transportation Planning
- TTE 5256: Traffic Engineering
- TTE 5805: Geometric Design of Transportation Facilities
- TTE 5835: Pavement Design
- TTE 5837: Pavement Management Systems
- TTE 6205: Freeway Operations and Simulation
- TTE 6259: Urban Streets Simulation and Control
- TTE 6267: Traffic Flow Theory
- TTE 6306: Computational Methods in Transportation Engineering
- TTE 6315: Highway Safety Analysis
- TTE 6505: Discrete Choice Analysis
- TTE 6606: Urban Transportation Models

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM 5816: Intermediate Fluid Dynamics
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6441: Water Resources Planning and Management
- ENV 6508: Wetland Hydrology
- ENV 6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Coastal and Oceanographic Engineering

College

[College of Engineering](#)

Department/School

[Civil and Coastal Engineering Department](#)

Coastal and Oceanographic Engineering Program

The coastal and oceanographic engineering program is offered through the Department of Civil and Coastal Engineering with the following degrees: Master of Engineering, Master of Science, and Doctor of Philosophy degree. Subject to approval by the supervisory committee, graduate-level courses taken through the Departments of Environmental Engineering Sciences, Geological Sciences, and Mechanical and Aerospace Engineering are considered as major credit.

For courses taken through the Department of Civil and Coastal Engineering, credit hours graded S/U will not count toward graduation except for

- 6 hours of CGN 6971 or EOC 6971 for thesis students
- 3 hours of CGN 6974 for students working on the M.E. report
- CGN 7979 or EOC 7979
- CGN 7980 or EOC 7980

Degrees Offered with a Major in Coastal and Oceanographic Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Coastal and Oceanographic Engineering Courses

- EGM5816: Intermediate Fluid Dynamics
- EOC 5860: Port and Harbor Engineering
- EOC 6196: Littoral Processes
- EOC 6430: Coastal Structures
- EOC 6850: Numerical Simulation Techniques in Coastal and Ocean Engineering
- EOC 6905: Individual Study in Coastal and Oceanographic Engineering
- EOC 6932: Selected Field and Laboratory Problems
- EOC 6934: Advanced Topics in Coastal and Oceanographic Engineering
- EOC 6939: Graduate Seminar
- EOC 6971: Research for Master's Thesis
- EOC 6972: Research for Engineer's Thesis
- EOC 7979: Advanced Research
- EOC 7980: Research for Doctoral Dissertation
- OCP 5293: Coastal Processes
- OCP 6050: Physical Oceanography
- OCP 6165: Ocean Waves I: Linear Theory
- OCP 6165L: Ocean Waves Laboratory
- OCP 6167: Ocean Waves II: Nonlinear Theory
- OCP 6168: Data Analysis Techniques for Coastal and Ocean Engineers
- OCP 6169: Random Sea Analysis
- OCP 6295: Estuarine and Shelf Hydrodynamics I
- OCP 6297: Coastal and Estuarine Sediment Transport
- OCP 6298: Coastal Sediment Transport Processes

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5315: Civil Engineering Systems
- CGN 5605: Public Works Planning
- CGN 6150: Engineering Project Management
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6240: Mixing and Transport in Turbulent Flow
- TTE 6207: Advanced Highway Capacity Analysis

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM 5816: Intermediate Fluid Dynamics
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6441: Water Resources Planning and Management
- ENV 6508: Wetland Hydrology
- ENV 6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Computer Engineering

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Computer Engineering Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science and the Doctor of Philosophy degrees in Computer Engineering through the College of Engineering. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in Algorithms, Computer Vision, Databases, Graphics and Modeling, Machine Learning, Networks, and Systems, with active labs in Bioinformatics; Computational Science and Intelligence; Vision, Graphics and Medical Imaging; Database Systems Research and Development; Data Science Research; Mobile and Pervasive Computing; Human-Centered Computing; and Cybersecurity.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees Offered with a Major in Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

without a concentration

concentration in Digital Arts and Sciences

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry

- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Digital Arts and Sciences (Engineering)

College

[College of Engineering](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Digital Arts and Sciences (Engineering) Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science degree in Digital Arts and Sciences through the College of Engineering. Minimum requirements for this degree are given in the [Graduate Degrees](#) section of this catalog.

This specialized program integrates engineering and design and was created for students with an interest in video games, human-computer interaction, 3D modeling and animation, virtual reality, and computer graphics. The curriculum includes core computer science with a special emphasis on human-centered computing and provides students the flexibility to focus on both computer science and design, and to create software that is computationally complex, user friendly and aesthetically pleasing.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:
<http://cise.ufl.edu/admissions/grad>

Degrees

Master of Science

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning
- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering

- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Electrical and Computer Engineering

College

[College of Engineering](#)

Department/School

[Electrical and Computer Engineering Department](#)

Electrical and Computer Engineering Program Information

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in computer engineering, devices, electromagnetics and energy systems, electronics, and signals and systems.

Graduate students in the Department of Electrical and Computer Engineering have bachelor's degrees from many areas: electrical engineering, other engineering disciplines, chemistry, mathematics, physics, and other technical fields. The Department of Electrical and Computer Engineering offers both thesis and nonthesis options for the master's degrees.

In the *thesis option* a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of [EEL 6971](#) (Research for Master's Thesis). While the Graduate School sets the minimum requirements, the supervisory committee determines the appropriate number of thesis hours a student shall be required to take for the thesis. Other course requirements include a minimum of 18 hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis). No more than 6 hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)) may be counted toward the degree.

In the nonthesis option a student shall complete a minimum of 30 semester credit hours with a maximum of 6 semester credit hours of Individual Work ([EEL 5905](#) or [EEL 6905](#)). The course requirements include a minimum of 21 semester credit hours at the 5000 or 6000 level in electrical and computer engineering. Excluded from satisfying these course requirements are [EEL 5905](#) and [EEL 6905](#) (Individual Work), [EEL 6910](#) (Supervised Research), 6932 (Graduate Seminar), [EEL 6940](#) (Supervised Teaching), and [EEL 6971](#) (Research for Master's Thesis).

The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and master's degree with a saving of one semester. Qualified students may begin their master's programs while seniors, counting up to 12 hours of specified electrical and computer engineering graduate courses for both bachelor's and master's degree requirements. Bachelor's/master's program admission requirements are (1) satisfaction of Graduate School admission requirements for the master's degree, (2) an upper-division (undergraduate) GPA of at least 3.3, and (3) completion of at least 7 EEL core courses and 2 EEL laboratories. Students with a GPA between 3.3 and 3.59 can double count up to 6

hours, while students with a GPA of 3.6 or higher can double count up to 12 hours.

All prospective doctoral students must take the written part of the Ph.D. qualifying examination within the first year of enrollment. Other requirements for the doctoral degree, as well as requirements for master's and engineer degrees, are given in the Electrical and Computer Engineering Department's Graduate Guidelines (see <http://www.ece.ufl.edu/content/graduate-academics>) and in the front section of this catalog

The following course listing indicates the major areas of faculty interest. Special topics courses [EEL 5934](#) and [EEL 6935](#) cover a wide variety of subjects for which there are no present courses.

Degrees Offered with a Major in Electrical and Computer Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Courses

- CNT 6805: Network Science and Applications
- EEE 5317C: Introduction to Power Electronics
- EEE 5320: Bipolar Analog IC Design
- EEE 5322: VLSI Circuits and Technology
- EEE 5364: Fundamentals of Data Converters
- EEE 5400: Future of Microelectronics Technology
- EEE 5405: Microelectronic Fabrication Technologies
- EEE 5426: Introduction to Nanodevices
- EEE 6287: Brain Machine Interface Engineering
- EEE 6321: MOS Analog IC Design
- EEE 6323: Advanced VLSI Design
- EEE 6325: Computer Simulation of Integrated Circuits and Devices
- EEE 6328C: Microwave IC Design
- EEE 6374: Radio Frequency (RF) Integrated Circuits and Technologies
- EEE 6382: Semiconductor Physical Electronics
- EEE 6390: VLSI Device Design
- EEE 6397: Semiconductor Device Theory I
- EEE 6402: Nonclassical Si-Based Nanoscale CMOS Devices
- EEE 6428: Computational Nanoelectronics
- EEE 6431: Carbon Nanotubes
- EEE 6460: Advanced Microsystem Technology
- EEE 6465: Design of MEMS Transducers
- EEL 5182: State Variable Methods in Linear Systems
- EEL 5225: Principles of Micro-Electro-Mechanical Transducers
- EEL 5400: Airborne Sensors and Instrumentation
- EEL 5401: Airborne Laser Scanning: Data Processing and Analysis
- EEL 5441: Fundamentals of Photonics
- EEL 5462: Advanced Antenna Systems
- EEL 5490: Lightning
- EEE 5502: Foundations of Digital Signal Processing
- EEE 5544: Noise in Linear Systems
- EEE 5556: Electronic Countermeasures
- EEL 5666C: Intelligent Machines Design Laboratory
- EEL 5718: Computer Communications
- EEL 5721: Reconfigurable Computing
- EEL 5737: Principles of Computer System Design
- EEL 5764: Computer Architecture
- EEL 5840: Elements of Machine Intelligence
- EEL 5905: Individual Work
- EEL 5934: Special Topics in Electrical Engineering
- EEL 6065: Electrical & Computer Engineering Technical Writing
- EEL 6264: Advanced Electric Energy Systems I
- EEL 6265: Advanced Electric Energy Systems II
- EEL 6443: Integrated and Fiber Optics

- EEL 6486: Electromagnetic Field Theory and Applications I
- EEL 6487: Electromagnetic Field Theory and Applications II
- EEE 6504: Adaptive Signal Processing
- EEL 6507: Queuing Theory and Data Communications
- EEL 6509: Wireless Communication
- EEE 6503: Digital Filtering
- EEL 6532: Information Theory
- EEL 6533: Statistical Decision Theory
- EEL 6535: Digital Communications
- EEL 6537: Spectral Estimation
- EEL 6550: Error Correction Coding
- EEE 6512: Image Processing and Computer Vision
- EEL 6528: Digital Communications with Software-defined Radios
- EEL 6555: Signal Processing for Active Sensing
- EEE 6586: Automatic Speech Processing
- EEL 6588: Wireless Ad Hoc Networks
- EEL 6591: Wireless Networks
- EEL 6614: Modern Control Theory
- EEL 6617: Linear Multivariable Control
- EEL 6619: Robust Control Systems
- EEL 6686: Embedded Systems Seminar
- EEL 6706: Fault-Tolerant Computer Architecture
- EEL 6763: Parallel Computer Architecture
- EEL 6769: Hardware-Software Interactions: Nonnumeric Processing
- EEL 6814: Neural Networks for Signal Processing
- EEL 6825: Pattern Recognition and Intelligent Systems
- EEL 6841: Machine Intelligence and Synthesis
- EEL 6871: Autonomic Computing
- EEL 6892: Virtual Computers
- EEL 6905: Individual Work
- EEL 6910: Supervised Research
- EEL 6933: Electrical and Computer Engineering Graduate Seminar
- EEL 6935: Special Topics in Electrical Engineering
- EEL 6940: Supervised Teaching
- EEL 6971: Research for Master's Thesis
- EEL 6972: Research for Engineer's Thesis
- EEL 7979: Advanced Research
- EEL 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Environmental Engineering Sciences

College

[College of Engineering](#)

Department/School

[Environmental Engineering Sciences Department](#)

Environmental Engineering Sciences Program Information

Graduate study is offered leading to the degrees Master of Engineering, Master of Science, and Doctor of Philosophy in the field of environmental engineering sciences. Our graduate research and education areas are

Air Resources

- Monitoring of air pollutants: indoor, ambient, industrial, and occupational
- Monitoring methodology and instrumentation development
- Formation and fate of air pollutants
- Air quality modeling
- Air pollution control: system, process and materials
- Sustainability of air quality
- Health effects and environmental impact of air pollutant

Biogeochemical Systems

- Green Engineering
- Microbiology of Natural and Engineered Systems
- Environmental Fate and Transport of Pollutants in Soils and Aquatic Systems
- Biological and Chemical Remediation of Contaminated Systems
- Environmental Toxicology and Nanotoxicology
- Effects of Climate and Land Use Changes on Biogeochemical Cycles
- Aqueous Geochemistry and Water Treatment

Environmental Nanotechnology

- Manufacturing and tailoring of nanomaterials and nanodevices for application in environmental and human health research
- Environmental fate and transport of nanomaterials
- Environmental implications of nanomaterials

Solid and Hazardous Waste Management

- Bioreactor Landfills
- Combustion and Thermal Treatment Residuals
- Contaminated Soil Characterization and Treatment
- Construction and Demolition Debris
- Electronic Waste
- Hazardous Waste
- Landfill Design and Operations
- Landfill Gas and Leachate
- Recycling and Beneficial Use of Wastes
- Treated Wood
- Waste Characterization and Leaching
- Solid Waste Management in Developing Countries

Stormwater, Water Supply and Wastewater

- Fundamental characterization of aqueous and particulate-phase contaminants including emerging contaminants: representative ambient monitoring methodology and load quantification.
- Sourcing and generation of aqueous and particulate phase contaminants, physics and chemistry of contaminant transport and fate.
- Water contaminant control: systems, unit operation and processes, and materials development, in particular innovative mass transfer materials and low impact development materials.
- Water reuse as part of the urban water cycle: volumetric and contaminant load impacts
- Unit operation and process modeling: scalable physical models and computational fluid dynamics (CFD).
- Integrated physical, chemical, biological and thermal treatment phenomena for water cycle components.
- Coupling fundamental monitoring and material balance testing with urban water modeling
- Fundamental and applied studies of physical-chemical water treatment processes, such as adsorption, coagulation, ion exchange, and oxidation, for a wide range of water qualities including surface water, groundwater, membrane concentrate, landfill leachate, and human urine.
- Innovative applications of ion exchange for water treatment.
- Fundamental studies in aquatic chemistry with a focus on the role of natural organic matter.
- Fundamental and applied studies of adsorption and photocatalysis, including surface optimization
- Bottom up integrated urban water system simulation and optimization

Sustainability Science & Engineering

- Rational design of nanomaterial through acute and full-life-cycle toxicity assessment
- Life cycle assessment calculations and comparisons of alternative energy and materials options
- Industrial ecology
- Corporate water resources sustainability
- Campus green building codes
- Green laboratory techniques
- Operation of buildings to meet green energy requirements

Systems Ecology and Ecological Engineering

- Ecological Engineering
- Emergy Analysis
- Wetlands ecosystem research
- Ecological Modeling
- Estuarine Systems

Water Resources

- Contaminant transport and fate
- Decision support systems
- Ecohydrology and hydrologic restoration
- Hydrology
- Stormwater control
- Water resources planning and management
- Water conservation
- Urban water infrastructure

Graduate students can also combine one or more of the above areas with specialties in other departments at the University of Florida.

The department participates in the hydrologic sciences interdisciplinary concentration that is offered through 9 departments in 3 colleges. This concentration is described under Interdisciplinary Graduate Studies.

Direct admission into the Master of Science and Doctor of Philosophy programs requires a bachelor's degree in engineering or in a basic science such as chemistry, geology, physics, biology, or mathematics. Persons with a degree in a nontechnical field may also be admitted into this program after completing appropriate technical courses. Direct admission into the Master of Engineering program requires a bachelor's degree in engineering.

Requirements for a master's degree normally take 12 to 24 months to complete. The length of time required for the Doctor of Philosophy degree depends partly on the research topic, and may be completed in 3 years, but often takes longer, depending on prior academic experience.

Concurrent program: The department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree, with a savings of 12 credits.

Joint program: The Environmental Engineering Sciences Department, in partnership with the Levin College of Law, offers a joint program leading to the M.S. or M.E. degree in environmental engineering sciences and the Juris Doctor degree. Twelve credits of appropriate course work are counted toward both degrees.

Degrees Offered with a Major in Environmental Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Engineering

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Wetland Sciences

Courses

- CEG 5206: Geosensing I
- CWR 6115: Surface Hydrology
- CWR 6116: Advanced Surface Hydrology
- CWR 6252: Environmental Biochemistry of Trace Metals
- CWR 6536: Stochastic Subsurface Hydrology
- CWR 6537: Contaminant Subsurface Hydrology
- EES 5105: Advanced Wastewater Microbiology
- EES 5107: Ecological and Biological Systems
- EES 5207: Environmental Chemistry
- EES 5245: Water Quality Analysis
- EES 5305C: Ecological and General Systems
- EES 5306: Energy Analysis
- EES 5307: Ecological Engineering
- EES 5315: Ecology and the Environment
- EES 5415: Environmental Health
- EES 6007: Advanced Energy and Environment
- EES 6009: Ecological Economics
- EES 6026C: Environmental Systems Dynamics
- EES 6028: Spatial Modeling Using Geographic Information Systems
- EES 6051: Advanced Environmental Planning and Design
- EES 6135: Aquatic Microbiology
- EES 6136: Aquatic Autotrophs
- EES 6137: Aquatic Heterotrophs
- EES 6140: Biology of Exotic Species
- EES 6371: Environmental Meteorology and Oceanography
- EES 6208: Principles of Water Chemistry I
- EES 6209: Principles of Water Chemistry II
- EES 6225: Atmospheric Chemistry
- EES 6246: Advanced Water Analysis
- EES 6301: Comparative Approaches in Systems Ecology
- EES 6308C: Wetland Ecology
- EES 6309: Wetland Treatment Systems
- EES 6318: Principles of Industrial Ecology
- EES 6335: Springs Ecosystems
- EES 6356: Estuarine Systems
- EES 6405: Environmental Toxicology
- ENV 6439: Activated Carbon: Environmental Design and Application
- ENV 5072: Pollution Control and Prevention
- ENV 5075: Environmental Policy
- ENV 5105: Foundations of Air Pollution
- ENV 5305: Advanced Solid Waste Treatment Design
- ENV 5306: Municipal Refuse Disposal
- ENV 5518: Field Methods in Environmental Hydrology
- ENV 5520: Fluid Flow in Environmental Systems
- ENV 5555: Wastewater Treatment
- ENV 5565: Hydraulic Systems Design
- ENV 6050: Advanced Pollutant Transport
- ENV 6052: Immiscible Fluids in Porous Media
- ENV 6116: Air Pollution Sampling and Analysis
- ENV 6126: Air Pollution Control Design
- ENV 6130: Aerosol Mechanics
- ENV 6146: Atmospheric Dispersion Modeling
- ENV 6215: Health Physics
- ENV 6216: Radioactive Wastes
- ENV 6301: Advanced Solid Waste Containment Design
- ENV 6435: Advanced Water Treatment Process Design
- ENV 6435C: Advanced Water Treatment Process Design
- ENV 6435L: Water Treatment Process Design Laboratory
- ENV 6437: Advanced Wastewater System Design
- ENV 6438: Advanced Potable Water Systems Design
- ENV 6441: Water Resources Planning and Management
- ENV 6416: Advanced Stormwater Control Systems
- ENV 6508: Wetland Hydrology
- ENV 6510: Groundwater Restoration
- ENV 6511: Biological Wastewater Treatment

- ENV6556: Advanced Waste Treatment Operations
- ENV6617: Principles of Green Engineering Design and Sustainability
- ENV6905: Individual Work
- ENV6910: Supervised Research
- ENV6916: Nonthesis Project
- ENV6932: Special Problems in Environmental Engineering
- ENV6935: Graduate Environmental Engineering Seminar
- ENV6971: Research for Master's Thesis
- ENV7979: Advanced Research
- ENV7980: Research for Doctoral Dissertation

Hydrology / Water Resources Shared Courses

- CGN 6905: Special Problems in Civil Engineering
- CWR 5125: Groundwater Flow I
- CWR 5127: Evaluation of Groundwater Quality
- CWR 5235: Open Channel Hydraulics
- CWR 6115: Surface Hydrology
- CWR 6126: Variable-Density Groundwater Flow
- CWR 6525: Groundwater Flow II
- CWR 6537: Contaminant Subsurface Hydrology
- EGM5816: Intermediate Fluid Dynamics
- ENV5518: Field Methods in Environmental Hydrology
- ENV5565: Hydraulic Systems Design
- ENV6050: Advanced Pollutant Transport
- ENV6052: Immiscible Fluids in Porous Media
- ENV6441: Water Resources Planning and Management
- ENV6508: Wetland Hydrology
- ENV6932: Special Problems in Environmental Engineering

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Industrial and Systems Engineering

College

[College of Engineering](#)

Department/School

[Industrial and Systems Engineering Department](#)

Degrees Offered with a Major in Industrial and Systems Engineering

Doctor of Philosophy

without a concentration

concentration in Quantitative Finance

Engineer

Master of Engineering

Master of Science

Industrial and Systems Engineering Courses

- EIN 6227: Advanced Quality Management and Engineering for Business Processes
- EIN 6336: Advanced Production and Inventory Control
- EIN 6357: Advanced Engineering Economy
- EIN 6367: Facilities Layout and Location
- EIN 6392: Manufacturing Management
- EIN 6905: Special Problems
- EIN 6910: Supervised Research
- EIN 6918: Graduate Seminar
- EIN 6940: Supervised Teaching
- EIN 6971: Research for Master's Thesis
- EIN 6972: Research for Engineer's Thesis
- EIN 7933: Special Problems
- EIN 7979: Advanced Research
- EIN 7980: Research for Doctoral Dissertation
- ESI 5236: Reliability Engineering
- ESI 6162C: Advanced Industrial Applications of Microprocessors
- ESI 6314: Deterministic Methods in Operations Research
- ESI 6321: Applied Probability Methods in Engineering
- ESI 6323: Models for Supply Chain Management
- ESI 6341: Intro to Stochastic Optimization
- ESI 6355: Decision Support Systems for Industrial and Systems Engineers
- ESI 6417: Linear Programming and Network Optimization
- ESI 6418: Linear Programming Extensions and Applications
- ESI 6420: Fundamentals of Mathematical Programming
- ESI 6429: Introduction to Nonlinear Optimization
- ESI 6448: Discrete Optimization Theory
- ESI 6449: Integer Programming
- ESI 6470: Principles of Manufacturing Systems Engineering
- ESI 6492: Global Optimization
- ESI 6529: Digital Simulation Techniques
- ESI 6533: Advanced Simulation Design and Analysis
- ESI 6546: Stochastic Modeling and Analysis
- ESI 6552: Systems Architecture
- ESI 6553: Systems Design
- ESI 6555: Systems Management
- ESI 6912: Advanced Topics in ISE

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Materials Science and Engineering

College

[College of Engineering](#)

Department/School

[Materials Science and Engineering Department](#)

Degrees Offered with a Major in Materials Science and Engineering

Doctor of Philosophy

without a concentration

in concentration in Clinical and Translational Science

Master of Engineering

Master of Science

Courses

- EMA5008: Particle Science and Technology: Theory and Practice
- EMA5095: Critical Analysis of Research in Materials Science & Engineering
- EMA5108: Vacuum Science and Technology
- EMA5365: Biomimetic Synthesis
- EMA6001: Properties of Materials - A Survey
- EMA6005: Thin and Thick Films
- EMA6105: Fundamentals and Applications of Surface Science
- EMA6106: Advanced Phase Diagrams
- EMA6107: High Temperature Materials
- EMA6109: Physical Chemistry of High Temperature Materials
- EMA6110: Electron Theory of Solids for Materials Scientists I
- EMA6111: Electron Theory of Solids for Materials Scientists II
- EMA6114: Advanced Materials Principles 2
- EMA6128: Materials Microstructures
- EMA6136: Diffusion, Kinetics, and Transport Phenomena
- EMA6165: Polymer Physical Science
- EMA6166: Polymer Composites
- EMA6226: Synthesis and Properties of Metallic Nanostructures
- EMA6227: Advanced Mechanical Metallurgy II
- EMA6265: Mechanical Properties of Polymers
- EMA6313: Advanced Materials Principles I
- EMA6315: Colloidal Hydrodynamics
- EMA6316: Materials Thermodynamics
- EMA6319: Applied Colloid and Interfacial Chemistry for Engineers
- EMA6412: Synthesis and Characterization of Electronic Materials
- EMA6416: Organic Electronics
- EMA6445: Electroceramics
- EMA6446: Solid State Ionics
- EMA6448: Ceramic Processing
- EMA6461: Polymer Characterization
- EMA6507: Scanning Electron Microscopy and Microanalysis
 - EMA 6507C

- EMA6507L: Scanning Electron Microscopy and Microanalysis Lab
- EMA6510: Survey of Materials Analysis Techniques
- EMA6512C: X-ray Scattering for Thin Film Analysis
- EMA6518: Transmission Electron Microscopy
- EMA6518L: Transmission Electron Microscopy Laboratory
- EMA6519L: Specialized Research Techniques in Materials Science
- EMA6540: Fundamentals of Crystallography
- EMA6541: Applied Crystallography and Powder Diffraction
- EMA6580: Science of Biomaterials I
- EMA6581C: Polymeric Biomaterials
- EMA6589: Mechanical Behavior of Biomaterials
- EMA6590: Advances in Biomaterials and Tissue Engineering for Healthcare
- EMA6591: Clinical Applications of Biomaterials and Tissue Engineering
- EMA6616: Advanced Electronic Materials Processing
- EMA6625: Advanced Metals Processing
- EMA6667: Polymer Processing
- EMA6715: Fracture of Brittle Materials
- EMA6803: Classical Methods in Computational Materials Science
- EMA6804: Quantum Methods in Computational Materials Science
- EMA6805: Mathematical Methods in Materials Science I
- EMA6806: Mathematical Methods in Materials Science II
- EMA6808: Error Analysis and Optimization Methodologies in Materials Research
- EMA6905: Individual Work in Materials Science and Engineering
- EMA6910: Supervised Research
- EMA6936: Seminar in Materials Science and Engineering
- EMA6938: Special Topics in Materials Science and Engineering
- EMA6971: Research for Master's Thesis
 - EMA 6xxxA
 - EMA 6xxxB
 - EMA 6XXXL
- EMA7979: Advanced Research
- EMA7980: Research for Doctoral Dissertation
- ENU 6805: Introduction to Nuclear Reactor Materials

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Mechanical Engineering

College

[College of Engineering](#)

Department/School

[Mechanical and Aerospace Engineering Department](#)

Degrees Offered with a Major in Mechanical Engineering

Doctor of Philosophy

Master of Engineering

Master of Science

Mechanical and Aerospace Engineering Departmental Courses

- BME 5580: Introduction to Microfluidics and BioMEMS
- EAS 5938: Special Topics in Aerospace Engineering
- EAS 6135: Molecular Theory of Fluid Flows
- EAS 6138: Gasdynamics
- EAS 6242: Advanced Structural Composites
- EAS 6415: Guidance and Control of Aerospace Vehicles
- EAS 6905: Aerospace Research
- EAS 6910: Supervised Research
- EAS 6935: Graduate Seminar
- EAS 6939: Special Topics in Aerospace Engineering
- EAS 6971: Research for Master's Thesis
- EAS 7979: Advanced Research
- EAS 7980: Research for Doctoral Dissertation
- EGM5005: Laser Principles and Applications
- EGM5111L: Experimental Stress Analysis
- EGM5121C: Data Measurement and Analysis
- EGM5533: Applied Elasticity and Advanced Mechanics of Solids
- EGM5584: Biomechanics of Soft Tissue
- EGM5816: Intermediate Fluid Dynamics
- EGM5933: Special Topics in Engineering Science and Mechanics
- EGM6006: Laser-Based Diagnostics
- EGM6321: Principles of Engineering Analysis I
- EGM6322: Principles of Engineering Analysis II
- EGM6323: Principles of Engineering Analysis III
- EGM6341: Numerical Methods of Engineering Analysis I
- EGM6342: Fundamentals of Computational Fluid Dynamics
- EGM6352: Advanced Finite Element Methods
- EGM6365: Structural Optimization
- EGM6570: Principles of Fracture Mechanics
- EGM6611: Continuum Mechanics
- EGM6671: Inelastic Materials
- EGM6812: Fluid Mechanics I
- EGM6813: Fluid Mechanics II
- EGM6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EGM6905: Individual Study
- EGM6910: Supervised Research
- EGM6934: Special Topics in Engineering Mechanics
- EGM6936: Graduate Seminar
- EGM6971: Research for Master's Thesis
- EGM7819: Computational Fluid Dynamics
- EGM7845: Turbulent Fluid Flow
- EGM7979: Advanced Research
- EGM7980: Research for Doctoral Dissertation
- EML 5045: Computational Methods for Design and Manufacturing
- EML 5104: Classical and Statistical Thermodynamics
- EML 5124: Two-Phase Flow and Boiling Heat Transfer
- EML 5131: Combustion
- EML 5215: Analytical Dynamics I
- EML 5223: Structural Dynamics
- EML 5224: Acoustics
- EML 5233: Failure of Materials in Mechanical Design
- EML 5311: Control System Theory
- EML 5318: Computer Control of Machines and Processes
- EML 5455: Clean Combustion Technology
- EML 5465: Energy Management for Mechanical Engineers
- EML 5515: Gas Turbines and Jet Engines
- EML 5516: Design of Thermal Systems
- EML 5526: Finite Element Analysis and Application
- EML 5595: Mechanics of the Human Locomotor System
- EML 5598: Orthopedic Biomechanics
- EML 5605: Advanced Refrigeration
- EML 5714: Introduction to Compressible Flow
- EML 6146: Microscale Heat Transfer
- EML 6154: Conduction Heat Transfer
- EML 6155: Convective Heat Transfer I
- EML 6156: Multiphase Convection Heat Transfer
- EML 6157: Radiation Heat Transfer
- EML 6216: Analytical Dynamics II
- EML 6229: Introduction to Random Dynamical Systems
- EML 6267: Structural Dynamics of Production Machinery
- EML 6278: Advanced Rotor Dynamics
- EML 6281: Geometry of Mechanisms and Robots I
- EML 6282: Geometry of Mechanisms and Robots II
- EML 6323: Nontraditional Manufacturing
- EML 6324: Fundamentals of Production Engineering
- EML 6350: Introduction to Nonlinear Control
- EML 6351: Nonlinear Control II: Adaptive Control

- EML 6352: Optimal Estimation
- EML 6365: Robust Control Synthesis
- EML 6417: Solar Energy Utilization
- EML 6451: Energy Conversion
- EML 6606: Advanced Air Conditioning
- EML 6905: Individual Projects in Mechanical Engineering
- EML 6934: Special Topics in Mechanical Engineering
- EML 6936: Nonthesis Project
- EML 6971: Research for Master's Thesis
- EML 7979: Advanced Research
- EML 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Nuclear Engineering Sciences

College

[College of Engineering](#)

Department/School

[Nuclear and Radiological Engineering Department](#)

Degrees Offered with a Major in Nuclear Engineering Sciences

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

Master of Engineering

Master of Science

Courses

- ENU 5142: Reliability and Risk Analysis for Nuclear Facilities
- ENU 5176L: Principles of Nuclear Reactor Operations Laboratory
- ENU 5186: Nuclear Fuel Cycles
- ENU 5196: Nuclear Reactor Power Plant System Dynamics and Control
- ENU 5516L: Nuclear Engineering Laboratory II
- ENU 5615C: Nuclear Radiation Detection and Instrumentation
- ENU 5615L: Nuclear Radiation Detection and Instrumentation Lab
- ENU 5626: Radiation Biology
- ENU 5658: Imaging System Analysis with Medical Physics Applications
- ENU 5705: Advanced Concepts for Nuclear Energy
- ENU 6051: Radiation Interaction Basics and Applications I
- ENU 6052: Radiation Transport Basics and Applications
- ENU 6053: Radiation Interaction Basics and Applications II
- ENU 6061: Survey of Medical Radiological Physics
- ENU 6106: Nuclear Reactor Analysis I
- ENU 6107: Nuclear Reactor Analysis II
- ENU 6126: Fundamentals of Reactor Kinetics
- ENU 6135: Nuclear Thermal Hydraulics
- ENU 6623: Radiation Dosimetry
- ENU 6627: Therapeutic Radiological Physics
- ENU 6636: Medical Radiation Shielding & Protection
- ENU 6651: Clinical Rotation in Radiation Therapy
- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6655: Advanced Diagnostic Radiological Physics
- ENU 6657: Diagnostic Radiological Physics
- ENU 6659: Nuclear Medicine Instrumentation and Procedure
- ENU 6835: Nuclear Fuels
- ENU 6905: Individual Work
- ENU 6910: Supervised Research
- ENU 6935: Nuclear and Radiological Engineering Seminar
- ENU 6936: Special Projects in Nuclear and Radiological Engineering Sciences
- ENU 6937: Special Topics in Nuclear and Radiological Engineering Sciences
- ENU 6971: Research for Master's Thesis
- ENU 6972: Research for Engineer's Thesis
- ENU 7979: Advanced Research
- ENU 7980: Research for Doctoral Dissertation

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

College of Health and Human Performance

Dean: M. Reid

Complete faculty listings: [Follow this link.](#)

Research and teaching in HHP has an impact on almost every aspect of the human condition. The college's four centers – the [Florida Center for Health Promotion](#), [Center for Exercise Science](#), and the [Eric Friedheim Tourism Institute](#) – as well as its three primary departments – [Applied Physiology and Kinesiology](#), [Health Education and Behavior](#), and [Tourism, Recreation, and Sport Management Department](#) – place the college firmly in a position to influence and improve an array of societal problems and challenges.

For more information about the College of Health and Human Performance, please see our website: <http://hhp.ufl.edu>

[Departments and Programs within the College of Health and Human Performance](#)

[College of Health and Human Performance Courses](#)

Other

Applied Physiology and Kinesiology

College

[College of Health and Human Performance](#)

Department/School

[Applied Physiology and Kinesiology Department](#)

Applied Physiology and Kinesiology Program Information

Graduate study in Applied Physiology and Kinesiology (APK) is focused on research in concentration areas including: athletic training; biomechanics; motor control and learning; exercise physiology; and exercise and performance psychology. Graduate students are exposed to and directly involved in research covering the full multidisciplinary spectrum of human potential from young to old, fit to unfit, healthy to diseased, able-bodied to disabled, and from the casual recreational participant to the high-level athlete. In addition to human performance issues, APK faculty and students study the immediate and lasting effects of exercise and its use in disease prevention and rehabilitation.

For more information, please see our website: <http://apk.hhp.ufl.edu/index.php/current-students/prospective-students>.

Degrees Offered with a Major in Applied Physiology and Kinesiology

Master of Science

without a concentration

concentration in Athletic Training/Sports Medicine

concentration in Biobehavioral Science

concentration in Clinical Exercise Physiology

concentration in Exercise Physiology

concentration in Human Performance

Applied Physiology and Kinesiology Departmental Courses

- APK 5127: Assessment in Exercise Science
- APK 5404: Sport Psychology
- APK 6111L: Practicum in Exercise Physiology
- APK 6116C: Physiological Bases of Exercise and Sport Sciences
- APK 6118: Neuromuscular Adaptation to Exercise
- APK 6126: Cardiopulmonary Pathologies
- APK 6128: EKG Interpretation
- APK 6205C: Nature and Bases of Motor Performance
- APK 6206: Planning Motor Actions
- APK 6210: Controlling Motor Actions
- APK 6225: Biomechanical Instrumentation
- APK 6226C: Biomechanics of Human Motion
- APK 6406: Exercise Psychology
- APK 6408: Performance Enhancement
- APK 6410: Seminar in Exercise Psychology
- APK 6415: Seminar in Sport Psychology: Current Topics
- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- APK 7107: Cardiovascular Exercise Physiology
- APK 7108: Environmental Stress Exercise Physiology

- APK 7117: Exercise Metabolism
- APK 7124: Free Radicals in Aging, Exercise and Disease
- APK 7129: Pulmonary Function during Exercise
- ATR 6124: Clinical Anatomy for the Exercise Sciences
- ATR 6145: Human Pathophysiology for the Exercise Sciences
- ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity
- ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity
- ATR 6304: Rehabilitation and Modalities of Athletic Injuries
- ATR 6624: Athletic Training Research and Technology I
- ATR 6625: Athletic Training Research and Technology II
- ATR 6934: Seminar in Athletic Training
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis

Health and Human Performance

College

[College of Health and Human Performance](#)

Health and Human Performance Program Information

The Ph.D. in Health and Human Performance is a single college-wide Ph.D. program with 6 concentrations that are housed and administered by the three departments, according to the following organizational structure:

- **Applied Physiology and Kinesiology (APK):** Ph.D. students in APK study the immediate and lasting effects of exercise and its use in disease prevention and rehabilitation. APK Ph.D. concentrations include Exercise Physiology and Biobehavioral Science, with further specializations in biomechanics, motor control and learning, exercise and performance psychology, and sports medicine / athletic training
- **Health Education & Behavior (HEB):** Ph.D. students in HEB systematically investigate health promotion strategies aimed at modifying behaviors which will improve individual, family, workplace, and community health and well-being. The HEB Ph.D. concentration is in Health Behavior.
- **Tourism, Recreation, and Sport Management (TRSM):** TRSM Ph.D. students study the impact of tourism, recreation activities, professional and amateur sports, ecotourism, parks and beaches on the personal, social, economic, environmental and resource infrastructures of society. Ph.D. concentrations in TRSM include Natural Resource Recreation, Sport Management, and Tourism.

Students are expected to be involved in research throughout their Ph.D. program, which requires approximately three to five years of full-time study for completion. Graduates of the program are trained to assume positions as post-doctoral research scientists, or entry level professorships at colleges and universities throughout the country. The program of study is developed by the student and the supervisory committee based on the student's background, interests, and career goals, as well as faculty expertise. By design, the program is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in their areas of concentration.

For more information, please see our website: <http://gradprograms.hhp.ufl.edu/index.php/doctoral-program>.

Degrees Offered with a Major in Health and Human Performance

Doctor of Philosophy

without a concentration

concentration in Applied Physiology and Kinesiology

optional second concentration in Clinical and Translational Science

concentration in Biobehavioral Science

concentration in Clinical and Translational Science

concentration in Exercise Physiology

concentration in Health Behavior

optional second concentration in Clinical and Translational Science

concentration in Historic Preservation

concentration in Recreation, Parks, and Tourism

concentration in Sport Management

Applied Physiology and Kinesiology Departmental Courses

- APK 5127: Assessment in Exercise Science
- APK 5404: Sport Psychology
- APK 6111L: Practicum in Exercise Physiology
- APK 6116C: Physiological Bases of Exercise and Sport Sciences
- APK 6118: Neuromuscular Adaptation to Exercise
- APK 6126: Cardiopulmonary Pathologies
- APK 6128: EKG Interpretation
- APK 6205C: Nature and Bases of Motor Performance
- APK 6206: Planning Motor Actions
- APK 6210: Controlling Motor Actions
- APK 6225: Biomechanical Instrumentation
- APK 6226C: Biomechanics of Human Motion
- APK 6406: Exercise Psychology
- APK 6408: Performance Enhancement
- APK 6410: Seminar in Exercise Psychology
- APK 6415: Seminar in Sport Psychology: Current Topics
- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- APK 7107: Cardiovascular Exercise Physiology
- APK 7108: Environmental Stress Exercise Physiology
- APK 7117: Exercise Metabolism
- APK 7124: Free Radicals in Aging, Exercise and Disease
- APK 7129: Pulmonary Function during Exercise
- ATR 6124: Clinical Anatomy for the Exercise Sciences
- ATR 6145: Human Pathophysiology for the Exercise Sciences
- ATR 6215: Evidence-Based Orthopedic Exam I: Upper-Extremity
- ATR 6216: Evidence-Based Orthopedic Exam II: Lower-Extremity
- ATR 6304: Rehabilitation and Modalities of Athletic Injuries
- ATR 6624: Athletic Training Research and Technology I
- ATR 6625: Athletic Training Research and Technology II
- ATR 6934: Seminar in Athletic Training
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis

Health Education and Behavior Departmental Courses

- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- HSC 5135: Emotional Health Education
- HSC 5138: Human Sexuality
- HSC 5142: Drug Education
- HSC 5315C: Teaching Health in Elementary Schools
- HSC 5536C: Medical Terminology for the Health Professions
- HSC 5576: Nutrition Education for Special Populations
- HSC 5606: Spirituality and Health
- HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health
- HSC 5626: Minority Health Issues
- HSC 5657: Health and End-of-Life Issues
- HSC 5925: Seminar in Health Education
- HSC 5956: Writing for Professional Publications
- HSC 6037: Philosophy and Principles of Health Education
- HSC 6216: Environmental Health
- HSC 6235: Patient Health Education
- HSC 6318: Planning Health Education Programs
- HSC 6506: Epidemiology
- HSC 6567: Health Promotion and Programming in Gerontology
- HSC 6571: Contemporary Issues in Health Promotion
- HSC 6575: Women's Health Issues
- HSC 6595: HIV/AIDS Education
- HSC 6603: Theories of Health Behavior and Practice in Health Education
- HSC 6605: Scientific Foundations of Holistic Health
- HSC 6625: Trends in International Health
- HSC 6629: Health Promotion for Priority Populations
- HSC 6637: Social Marketing and Health
- HSC 6646: Community Health Methods in Injury Prevention & Control
- HSC 6665: Health Communication
- HSC 6667: Health Communication Programs
- HSC 6668: Interpersonal Communication and Health
- HSC 6695: Worksite Health Promotion
- HSC 6712: Evaluating Health Education Programs
- HSC 6735: Research Methods in Health Education
- HSC 6850: Internship in Health Education
- HSC 6904: Readings in Health Education
- HSC 6905: Independent Study
- HSC 6910: Supervised Research
- HSC 6935: Current Topics in Health Education
- HSC 6940: Supervised Teaching
- HSC 6971: Research for Master's Thesis
- HSC 6973: Project in Lieu of Thesis
- HSC 7904: Advanced Readings in Health Education
- HSC 7905: Advanced Independent Study in Health Education
- HSC 7937: Advanced Seminar in Health Education
- PEQ 5127: Advanced Instructors of Adapted Aquatics
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- PHC 6105: Health Promotion Policy and Practice

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development

- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism
- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM 5016: Sport Sociology
- SPM 5206: Sport Ethics
- SPM 5309: Sport Marketing
- SPM 5506: Sport Finance
- SPM 5936: Current Topics in Sport Management
- SPM 6006: Contemporary Sport Industry
- SPM 6036: Research Seminar in Sport Management
- SPM 6106: Management and Planning of Sport and Physical Activity Facilities
- SPM 6158: Management and Leadership in Sport
- SPM 6308: Study of Sport Consumer Behaviors
- SPM 6726: Issues in Sport Law
- SPM 6905: Directed Independent Study
- SPM 6910: Supervised Research
- SPM 6947: Graduate Internship in Sport Management
- SPM 6948: Advanced Practicum in Sport Management
- SPM 6971: Research for Master's Thesis

Health Education and Behavior

College

[College of Health and Human Performance](#)

Department/School

[Department of Health Education & Behavior](#)

Health Education and Behavior Program Information

The 30-credit hour, non-thesis in the Master of Science in Health Education and Behavior degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector.

The 30-credit, non-thesis Pre-Professional Health Science Track is designed for students seeking a career in health care. This option allows you to choose a minimum of 12 credits of basic science elective coursework which are prerequisites for dental, medical, nursing, occupational therapy, physician assistant, physical therapy, and other health professional programs including 6 credits of undergraduate science courses (3000-4999). This degree track prepares students who are interested in graduate studies in the health sciences and or pursuing health professional training. Full-time students can complete the 30-credit hour M.S. options in one year.

The 36-credit Thesis Option, and the 36-credit Project In Lieu Of Thesis Option, in the Master of Science in Health Education and Behavior degree programs are designed for students interested in improving their research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically complete these options in about 4 semesters.

For more information, please see our website: <http://heb.hhp.ufl.edu/index.php/academia/graduate-programs/masters-programs>.

Degrees Offered with a Major in Health Education and Behavior

Master of Science

Health Education and Behavior Departmental Courses

- APK 6900: Directed Independent Study
- APK 6940: Advanced Practicum in Exercise and Sport Science
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 6935: Variable International Topics
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- HSC 5135: Emotional Health Education
- HSC 5138: Human Sexuality
- HSC 5142: Drug Education
- HSC 5315C: Teaching Health in Elementary Schools
- HSC 5536C: Medical Terminology for the Health Professions
- HSC 5576: Nutrition Education for Special Populations
- HSC 5606: Spirituality and Health
- HSC 5618: Advanced Exercise Therapy, Adapted Physical Activity, & Health
- HSC 5626: Minority Health Issues
- HSC 5657: Health and End-of-Life Issues
- HSC 5925: Seminar in Health Education
- HSC 5956: Writing for Professional Publications
- HSC 6037: Philosophy and Principles of Health Education
- HSC 6216: Environmental Health
- HSC 6235: Patient Health Education
- HSC 6318: Planning Health Education Programs
- HSC 6506: Epidemiology
- HSC 6567: Health Promotion and Programming in Gerontology
- HSC 6571: Contemporary Issues in Health Promotion
- HSC 6575: Women's Health Issues
- HSC 6595: HIV/AIDS Education
- HSC 6603: Theories of Health Behavior and Practice in Health Education
- HSC 6605: Scientific Foundations of Holistic Health
- HSC 6625: Trends in International Health
- HSC 6629: Health Promotion for Priority Populations
- HSC 6637: Social Marketing and Health
- HSC 6646: Community Health Methods in Injury Prevention & Control
- HSC 6665: Health Communication
- HSC 6667: Health Communication Programs
- HSC 6668: Interpersonal Communication and Health
- HSC 6695: Worksite Health Promotion
- HSC 6712: Evaluating Health Education Programs
- HSC 6735: Research Methods in Health Education
- HSC 6850: Internship in Health Education
- HSC 6904: Readings in Health Education
- HSC 6905: Independent Study
- HSC 6910: Supervised Research
- HSC 6935: Current Topics in Health Education
- HSC 6940: Supervised Teaching
- HSC 6971: Research for Master's Thesis
- HSC 6973: Project in Lieu of Thesis
- HSC 7904: Advanced Readings in Health Education
- HSC 7905: Advanced Independent Study in Health Education
- HSC 7937: Advanced Seminar in Health Education
- PEQ 5127: Advanced Instructors of Adapted Aquatics
- PET 5936: Special Topics/Seminars
- PET 6910: Supervised Research
- PET 6940: Supervised Teaching
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- PHC 6105: Health Promotion Policy and Practice

Recreation, Parks, and Tourism

College

[College of Health and Human Performance](#)

Department/School

[Tourism, Recreation, and Sport Management Department](#)

Recreation, Parks, and Tourism Program Information

The Master of Science in Recreation, Parks and Tourism offers the following four areas of concentration:

1. Tourism and Commercial Recreation

- Travel activities to and staying outside one's usual environment; hospitality, transportation
- Recreation activities covered by fees, charges or other non-tax revenues; theme/amusement/water parks, movie theaters, sport/fitness/health clubs, resorts
- Examples of employers include: travel agencies, cruise lines, dance studios, special event companies, resorts, multipurpose sports clubs and health & fitness clubs

2. Natural Resource Recreation

- Park(s) management, protected areas, wilderness conservation
- State parks, river floating, horseback riding, hiking trails
- Beach management, rivers and lakes, sustainability
- Outdoor recreation leadership
- Conservation management, planning, and policy
- Federal agencies (National Parks, U.S. Army Corp of Engineers)

3. Recreation Administration and Supervision

- City/state public parks
- City pools
- City skate parks, family parks
- Public tennis courts
- City sports teams/leagues, youth sports
- Organized group and youth camps
- Military recreation departments (Morale, Welfare & Recreation [MWR] programs)

4. Campus Recreation Programming & Administration

- college campus intramural recreation programs
- campus fitness / exercise centers

Graduates of the Master of Science in Recreation, Parks & Tourism will be trained for middle and/or upper level management positions, in their respective fields mentioned above. Students can choose between three options: 1.) Thesis, or 2.) Non-Thesis Internship, or 3.) Non-Thesis with Paper.

For more information, please see our website: <http://trsm.hhp.ufl.edu/index.php/graduate/masters-programs/recreation-parks-and-tourism>.

Degrees Offered with a Major in Recreation, Parks, and Tourism

Master of Science

without a concentration

concentration in Historic Preservation

concentration in Natural Resource Recreation

concentration in Therapeutic Recreation

concentration in Tourism

concentration in Tropical Conservation and Development

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism
- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM 5016: Sport Sociology
- SPM 5206: Sport Ethics
- SPM 5309: Sport Marketing
- SPM 5506: Sport Finance
- SPM 5936: Current Topics in Sport Management
- SPM 6006: Contemporary Sport Industry
- SPM 6036: Research Seminar in Sport Management
- SPM 6106: Management and Planning of Sport and Physical Activity Facilities
- SPM 6158: Management and Leadership in Sport
- SPM 6308: Study of Sport Consumer Behaviors
- SPM 6726: Issues in Sport Law
- SPM 6905: Directed Independent Study
- SPM 6910: Supervised Research
- SPM 6947: Graduate Internship in Sport Management
- SPM 6948: Advanced Practicum in Sport Management
- SPM 6971: Research for Master's Thesis

Sport Management

College

[College of Health and Human Performance](#)

Department/School

[Tourism, Recreation, and Sport Management Department](#)

Sport Management Program Information

Sport Management integrates concepts of management, marketing, finance and law to apply to sport organizations at various levels and prepares students for a variety of volunteer and employment opportunities at the professional, collegiate, community and amateur level sport entities. Its focus is on the business and organization aspects of sport, not coaching or athletic performance.

For more information, please see our website: <http://trsm.hhp.ufl.edu/index.php/graduate/masters-programs/sport-management>.

Degrees Offered with a Major in Sport Management

Master of Science

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

Tourism, Recreation, and Sport Management Departmental Courses

- APK 6900: Directed Independent Study
- HMG 6076: Introduction to Hospitality and Tourism
- HMG 6608: Hospitality Law and Risk Management
- HMG 6747: Marketing in Hospitality/Tourism
- HLP 6515: Evaluation Procedures in Health and Human Performance
- HLP 6535: Research Methods in Health and Human Performance
- HLP 6911: Research Seminar
- HLP 7979: Advanced Research in Health and Human Performance
- HLP 7980: Research for Doctoral Dissertation
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6325: Ecotourism
- LEI 6326: Sport Tourism
- LEI 6336: Tourism Planning and Development
- LEI 6351: Heritage Tourism
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
- LEI 6562: Advanced Marketing for Recreation, Parks, and Tourism
- LEI 6895: Tourism Theory and Concepts
- LEI 6903: Readings in Recreation, Parks, and Tourism
- LEI 6905: Directed Independent Study
- LEI 6910: Supervised Research
- LEI 6931: Special Topics in Recreation, Parks, and Tourism
- LEI 6935: Seminar in Recreation, Parks, and Tourism
- LEI 6940: Supervised Teaching
- LEI 6944: Practicum in Leisure Studies
- LEI 6971: Research for Master's Thesis
- LEI 7170: Foundations of Leisure Behavior
- LEI 7901: Recreation, Parks, and Tourism in Higher Education
- LEI 7904: Advanced Readings in Recreation, Parks, and Tourism
- LEI 7905: Advanced Independent Study in Recreation, Parks and Tourism
- LEI 7910: Advanced Supervised Research
- LEI 7933: Advanced Special Topics in Recreation, Parks, and Tourism
- LEI 7936: Advanced Seminar in Recreation, Parks, and Tourism
- PET 6910: Supervised Research
- SPM 5016: Sport Sociology
- SPM 5206: Sport Ethics
- SPM 5309: Sport Marketing
- SPM 5506: Sport Finance

- SPM5936: Current Topics in Sport Management
- SPM6006: Contemporary Sport Industry
- SPM6036: Research Seminar in Sport Management
- SPM6106: Management and Planning of Sport and Physical Activity Facilities
- SPM6158: Management and Leadership in Sport
- SPM6308: Study of Sport Consumer Behaviors
- SPM6726: Issues in Sport Law
- SPM6905: Directed Independent Study
- SPM6910: Supervised Research
- SPM6947: Graduate Internship in Sport Management
- SPM6948: Advanced Practicum in Sport Management
- SPM6971: Research for Master's Thesis

College of Journalism and Communications

Dean: D. McFarlin

Senior Associate Dean for Graduate Studies and Research: D. Treise

Graduate Coordinators:

(Advertising) J. R. Goodman
(International Communication) M. Leslie
(Journalism) R. Rodgers
(Public Relations) M.A. Ferguson
(Science/Health Communication) D. Treise
(Telecommunication) J. Cleary.

Complete faculty listings: [Follow this link.](#)

Through the Division of Graduate Studies and Research, the College of Journalism and Communications offers the Doctor of Philosophy degree, the Master of Arts in Mass Communication (thesis or project option) degree, and the Master of Advertising (thesis) degree. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Doctoral students work closely with faculty members in research leading to a dissertation embodying a humanities, law/policy, or social sciences approach. Emphases within these approaches for which faculty members have expertise include advertising, journalism, public relations, telecommunication, international communication, and political communication. Details of doctoral faculty research interests and other aspects of the program are given in the College's Ph.D. Handbook.

Master's students may complete a thesis in advertising, journalism, public relations, telecommunication, international communication, or science/health communication. With the approval of the Sr. Associate Dean of Graduate Studies and Research and other faculty members, master's students may develop an individualized program of study, with thesis, to meet their specific needs and interests. A project in lieu of thesis option is available for some specializations.

Mass Communication/Law joint degree programs: Programs leading to the Master of Arts in Mass Communication or the Doctor of Philosophy and the Juris Doctor are offered under the joint auspices of the College of Journalism and Communications and the College of Law. For students interested in scholarship or practice of communication law or in reporting on the law, the programs offer the opportunity to blend relevant work from the two colleges. Students must meet the entrance requirements of both colleges. A thesis or dissertation is required. Interested students should apply for admission to both the Graduate School and the College of Law, noting on the applications the joint nature of the admission requests. Further information on the programs and on application procedures is available from the Holland Law Center and from the Division of Graduate Studies and Research of the College of Journalism and Communications.

General admission: Admission is granted to applicants with and without background in mass communication. Students without academic preparation in mass communication or appropriate experience may be required to take articulation work. These courses are taken concurrently with general graduate courses, starting in the first term of registration. Some degree plans require a background course in statistics. Students who have satisfied that requirement must provide written verification. Including articulation courses, the master's degree normally can be earned in one and one-half or two years of full-time study. Doctoral studies require three or more years of full-time study and research. Students who may require articulation courses should contact the Sr. Associate Dean of Graduate Studies and Research.

Grading policy: Any student whose cumulative GPA falls below 3.0 will be placed on probation. Any doctoral student who receives one grade below B- or a Master's student who receives one grade below C+ will be placed on probation, with the exception of courses taken from the Levin College of Law. For these courses, any student receiving one grade below C in any course from the Levin College of Law will be placed on probation. A requirement of the probation is that the student must achieve or maintain a cumulative grade point average of 3.0 or higher at the end of the next academic term in residence. A student who fails to satisfy the requirement will be suspended. A Doctoral student who accumulates two grades below "B--" or a Master's student who accumulates two grades below C+ during graduate studies will be suspended, as will a student who receives one grade of "D+" or lower at any time. Students will be allowed only one suspension.

Combined degree program: The College offers a combined bachelor's/master's program. For information, contact the Associate Dean for Graduate Studies.

For additional information, please see our website: <http://www.jou.ufl.edu/grad>.

[College of Journalism and Mass Communication Courses](#)

Other

Advertising

College

[College of Journalism and Communications](#)

Advertising Program Information

The Master of Advertising (M.Adv.) program is designed to develop leaders in the profession by providing students with

1. the theoretical, research and decision-making skills essential for strategic advertising and integrated communications planning, as well as
2. the opportunity to develop expertise in a specialized area such as account management, research, creative strategy, media planning, new technology and advertising sales management.

Students without basic course background or substantial professional experience in marketing or advertising are required to complete articulation courses before entering the program. These prerequisite courses include Introduction to Advertising and Introduction to Marketing.

A minimum of 33 graduate level credit hours, including a thesis, is required. In some areas of specialization, with permission from the departmental graduate faculty, a terminal project may be elected in lieu of a thesis.

Students select a supervisory committee to guide their course selection as well as thesis topic or project in lieu of thesis and completion of the thesis or project. Students will complete and orally defend their theses or projects. The student's supervisory committee is responsible for the evaluation of the document and the final defense.

The deadline for Fall applications is January 30 for international applicants and April 1 for domestic students. Applications may be considered after the April 1 deadline, if space is available. The Master of Advertising program does not accept any applications for Spring.

For admissions information and application materials, contact [Sarah G. Lee](#).

For information about the advertising curriculum and program requirements, contact [Dr. Robyn Goodman](#).

For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/master-of-advertising>

Degrees Offered with a Major in Advertising

Master of Advertising

College of Journalism and Communications Courses

- ADV 5005: Advertising Planning
- ADV 6006: Theories of Advertising
- ADV 6305: Advanced Media Planning
- ADV 6325: Advertising and Social Media
- ADV 6405: International Advertising
- ADV 6503: Advertising Creative Strategy and Research
- ADV 6505: Advertising Research Methods
- ADV 6602: Advertising Management
- COM 6315: Advanced Research Methods
- COM 6338: Advanced Web Topics I: Advanced Design
- COM 6940: Supervised Teaching
- FIL 6061: History of Documentary Film I
- FIL 6062: History of Documentary Film II
- FIL 6101: Advanced Radio, Television, and Film Writing
- FIL 6315: Writing for Documentary I
- FIL 6317: Producing and Writing the Documentary
- FIL 6335: Business of Documentary
- FIL 6340: Issues and Problems in Documentary
- FIL 6365: Documentary Pre-Production Planning
- FIL 6366: Documentary Procedures II
- FIL 6377: Documentary Field Production
- FIL 6378: Documentary Research Methods
- FIL 6380: Advanced Post-Production Techniques
- JOU 5007: History of Journalism
- JOU 5705: Issues and the Press
- JOU 6102: Reporting Workshop
- JOU 6114: Journalist Bootcamp
- JOU 6309: Seminar in Journalism as Literature
- JOU 6344: Journalist Toolkit 1
- JOU 6349: Journalist Toolkit 2
- JOU 6502: Newsroom Management
- MMC 5005: Mass Communication History
- MMC 5006: Introduction to Multimedia Communication
- MMC 5015: Electronic Publishing
- MMC 5206: Advanced Law of Mass Communication
- MMC 5277: Web Design Principles
- MMC 5306: International Communication
- MMC 5315: Survey of Foreign Correspondence
- MMC 5427: Research Methods in Digital Communication
- MMC 5636: Introduction to Social Media
- MMC 5708: Foundations of Intercultural Communication
- MMC 6202: Legal Problems of Mass Communication
- MMC 6278: Advanced Web Topics II
- MMC 6307: Seminar in International Communication
- MMC 6400: Mass Communication Theory
- MMC 6402: Seminar in Mass Communication Theory
- MMC 6405: Seminar in Mass Communication and Public Opinion
- MMC 6409: Science/Health Communication
- MMC 6417: Seminar in Mass Media and Health
- MMC 6421: Research Methods in Mass Communication

- MMC 6423: Content-Analysis Methods
- MMC 6426: Seminar in Qualitative Research
- MMC 6428: Collaborative Communication Research
- MMC 6429: News and Numbers
- MMC 6560: Seminar in History of Mass Communication
- MMC 6612: New Media and a Democratic Society
- MMC 6615: Race, Class, Gender, and Media
- MMC 6618: Survey of Political Communication
- MMC 6619: Seminar in Political Advertising
- MMC 6660: Mass Communication and Society
- MMC 6665: Seminar in First Amendment Theory
- MMC 6666: Seminar in Research in Mass Communication Law
- MMC 6667: Seminar in Advanced Topics in Mass Communication Law
- MMC 6668: Seminar in Public Policy Toward Mass Media
- MMC 6706: Covering the Arts
- MMC 6725: Social Media and Society
- MMC 6726: Social Media and Virtual Worlds
- MMC 6727: Social Media Metrics
- MMC 6728: Branding Using Social and Mobile Media
- MMC 6730: Social Media Management
- MMC 6905: Individual Work
- MMC 6910: Supervised Research
- MMC 6920: Communication Proseminar
- MMC 6929: Communication Colloquium
- MMC 6930: Seminar in Mass Communication Teaching
- MMC 6936: Special Topics in Mass Communication
- MMC 6949: Professional Internship
- MMC 6951: Masters Project Seminar
- MMC 6971: Research for Master's Thesis
- MMC 6973: Project in Lieu of Thesis
- MMC 7979: Advanced Research
- MMC 7980: Research for Doctoral Dissertation
- PUR 5507: Persuasion Theory and Research
- PUR 6005: Theories of Public Relations
- PUR 6006: Public Relations Foundations
- PUR 6403: Crisis and Risk Management
- PUR 6416: Public Relations and Fund Raising
- PUR 6446: Public Relations and Philanthropy
- PUR 6506: Public Relations Research
- PUR 6607: Public Relations Management
- PUR 6608: International Public Relations
- PUR 6934: Problems in Public Relations
- RTV 5702: Telecommunication Regulation
- RTV 6105: Writing for Electronic Media
- RTV 6309: Advanced TV Reporting
- RTV 6508: Audience Analysis
- RTV 6801: Telecommunication Management
- RTV 6807: Telecommunication Outlet Systems and Practices
- RTV 6973: Project in Lieu of Thesis
- VIC 5315: Corporate and Brand Identity on the Web
- VIC 5325: Digital Imagery in Web Design
- VIC 5326: Digital Media Layout and Design
- VIC 6316: Brand Management

Mass Communication

College

[College of Journalism and Communications](#)

Mass Communication Program Information

Ph.D. in Mass Communication

The Ph.D. degree is a research degree. The Ph.D. program is designed to help develop knowledge, attitudes, and skills so graduates can make important contributions to understanding mass communication. Faculty members help students lay the foundation for a lifetime of significant, creative work.

The doctoral program prepares students for a variety of opportunities in mass communication. Graduates are expected to teach at colleges and universities; conduct research for organizations in advertising, journalism, public relations, telecommunication, and other mass communication fields; do consulting and conduct research and contribute to policy in government and private organizations. Doctoral students in the College of Journalism and Communications gain valuable experience in both teaching and research. Assistantships help prepare students for academic and other research positions. Students in the program have consistently been among the nation's leaders in winning top-paper awards at national and regional scholarly meetings.

Master of Arts in Mass Communication (M.A.M.C.)

There are several specializations available for the Master of Arts in Mass Communication:

The **Journalism specialization** program in the UF College of Journalism and Communications combines study of the academic literature on the societal role and effects of mass communication in general and journalism in particular with courses designed to improve students' practice of the journalism craft. The Journalism specialization at the master's level is designed for students interested in all areas of non-broadcast journalism (i.e. newspapers, magazines and online publishing). Those who have an educational and/or professional background in journalism can enhance their understanding of the role of journalism in society, as well as improving reporting and writing skills. However, the program is also well-suited for students with a

long-term interest in college-level journalism education, who can pursue the master's degree as preparation for entry into a doctoral program. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-journalism>.

The **Public Relations specialization** at the master's level is a research-based program designed to prepare students for careers and advancement in the industry or for entering doctoral studies. Students learn the conceptual foundations of public relations and develop professional and research competency within the duration of the program. Courses in the public relations specialization focus on conceptual foundations of public relations, including mass communication and society; professional and managerial skills mastery; and research expertise. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/master-of-public-relations>.

The **Telecommunication specialization** program in the UF College of Journalism and Communications combines courses in Mass Communication, Telecommunication, and other areas relevant to the student's goals. There is a thesis track, appropriate for students who will later seek the Ph.D. or who wish to learn the skills and knowledge associated with thesis research or project in lieu of thesis. The Telecommunication track is designed for students with the following interests:

- Operation or management of telecommunication outlets (broadcast stations, cable systems, program distributors, etc.) and emerging media
- Telecommunication regulation and policy
- Audience research
- Preparation for an advanced degree

For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-telecommunication>.

The **International/Intercultural Communication specialization**: The field of international communication encompasses the study of international journalism (both print and broadcast) and international business and marketing communication. The field of intercultural communication focuses on the interactions between people of different cultures, values and histories. Through their study, students learn to appreciate and engage diverse cultures and media, gaining the knowledge and skills you need to thrive in today's challenging global community. The international/intercultural track in mass communication culminates with the student writing a thesis on an international/intercultural topic in communication, applying one or more of the methods used in communication research. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-internationalintercultural-communication-specialization>.

The **Science and Health Communications specialization** program is designed to teach scientists and health specialists to communicate effectively via media, and to teach mass media specialists the background science to translate the language of science and health into meaningful and understandable stories for their audiences. These goals are achieved through theoretical writing and applied courses. At least two aspects of the program make it unique among science communication programs nationwide. First, other existing science communication programs in the U.S. focus on training journalists. UF's program is open to journalists who want to specialize in covering science and health, offers training for people planning to work as public affairs or public information officers for science and health organizations, for other communication specialists, and for scientists who need to be able to communicate with the public about their work. Second, the program focuses on training students to understand and communicate effectively about science and health policy. For more information, please see our website: <http://www.jou.ufl.edu/academics/masters/mamc-sciencehealth-communication>.

For more help with any of our graduate degree programs, please refer to our website: <http://www.jou.ufl.edu/academics>.

Degrees Offered with a Major in Mass Communication

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Arts in Mass Communication

College of Journalism and Communications Courses

- ADV 5005: Advertising Planning
- ADV 6006: Theories of Advertising
- ADV 6305: Advanced Media Planning
- ADV 6325: Advertising and Social Media
- ADV 6405: International Advertising
- ADV 6503: Advertising Creative Strategy and Research
- ADV 6505: Advertising Research Methods
- ADV 6602: Advertising Management
- COM 6315: Advanced Research Methods
- COM 6338: Advanced Web Topics I: Advanced Design
- COM 6940: Supervised Teaching
- FIL 6061: History of Documentary Film I
- FIL 6062: History of Documentary Film II
- FIL 6101: Advanced Radio, Television, and Film Writing

- FIL 6315: Writing for Documentary I
- FIL 6317: Producing and Writing the Documentary
- FIL 6335: Business of Documentary
- FIL 6340: Issues and Problems in Documentary
- FIL 6365: Documentary Pre-Production Planning
- FIL 6366: Documentary Procedures II
- FIL 6377: Documentary Field Production
- FIL 6378: Documentary Research Methods
- FIL 6380: Advanced Post-Production Techniques
- JOU 5007: History of Journalism
- JOU 5705: Issues and the Press
- JOU 6102: Reporting Workshop
- JOU 6114: Journalist Bootcamp
- JOU 6309: Seminar in Journalism as Literature
- JOU 6344: Journalist Toolkit 1
- JOU 6349: Journalist Toolkit 2
- JOU 6502: Newsroom Management
- MMC 5005: Mass Communication History
- MMC 5006: Introduction to Multimedia Communication
- MMC 5015: Electronic Publishing
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- MMC 5277: Web Design Principles
- MMC 5306: International Communication
- MMC 5315: Survey of Foreign Correspondence
- MMC 5427: Research Methods in Digital Communication
- MMC 5636: Introduction to Social Media
- MMC 5708: Foundations of Intercultural Communication
- MMC 6202: Legal Problems of Mass Communication
- MMC 6278: Advanced Web Topics II
- MMC 6307: Seminar in International Communication
- MMC 6400: Mass Communication Theory
- MMC 6402: Seminar in Mass Communication Theory
- MMC 6405: Seminar in Mass Communication and Public Opinion
- MMC 6409: Science/Health Communication
- MMC 6417: Seminar in Mass Media and Health
- MMC 6421: Research Methods in Mass Communication
- MMC 6423: Content-Analysis Methods
- MMC 6426: Seminar in Qualitative Research
- MMC 6428: Collaborative Communication Research
- MMC 6429: News and Numbers
- MMC 6560: Seminar in History of Mass Communication
- MMC 6612: New Media and a Democratic Society
- MMC 6615: Race, Class, Gender, and Media
- MMC 6618: Survey of Political Communication
- MMC 6619: Seminar in Political Advertising
- MMC 6660: Mass Communication and Society
- MMC 6665: Seminar in First Amendment Theory
- MMC 6666: Seminar in Research in Mass Communication Law
- MMC 6667: Seminar in Advanced Topics in Mass Communication Law
- MMC 6668: Seminar in Public Policy Toward Mass Media
- MMC 6706: Covering the Arts
- MMC 6725: Social Media and Society
- MMC 6726: Social Media and Virtual Worlds
- MMC 6727: Social Media Metrics
- MMC 6728: Branding Using Social and Mobile Media
- MMC 6730: Social Media Management
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- MMC 6920: Communication Proseminar
- MMC 6929: Communication Colloquium
- MMC 6930: Seminar in Mass Communication Teaching
- MMC 6936: Special Topics in Mass Communication
- MMC 6949: Professional Internship
- MMC 6951: Masters Project Seminar
- MMC 6971: Research for Master's Thesis
- MMC 6973: Project in Lieu of Thesis
- MMC 7979: Advanced Research
- MMC 7980: Research for Doctoral Dissertation
- PUR 5507: Persuasion Theory and Research
- PUR 6005: Theories of Public Relations
- PUR 6006: Public Relations Foundations
- PUR 6403: Crisis and Risk Management
- PUR 6416: Public Relations and Fund Raising
- PUR 6446: Public Relations and Philanthropy
- PUR 6506: Public Relations Research
- PUR 6607: Public Relations Management
- PUR 6608: International Public Relations
- PUR 6934: Problems in Public Relations
- RTV 5702: Telecommunication Regulation
- RTV 6105: Writing for Electronic Media
- RTV 6309: Advanced TV Reporting
- RTV 6508: Audience Analysis
- RTV 6801: Telecommunication Management
- RTV 6807: Telecommunication Outlet Systems and Practices
- RTV 6973: Project in Lieu of Thesis

- VC 5315: Corporate and Brand Identity on the Web
- VC 5325: Digital Imagery in Web Design
- VC 5326: Digital Media Layout and Design
- VC 6316: Brand Management

Fredric G. Levin College of Law

Dean: R. Jerry II

Complete faculty listings: [Follow this link.](#)

The University of Florida Levin College of Law has a longstanding tradition of producing national leaders, including current American Bar Association President Stephen Zack, and is one of the nation's best values in legal education.

For more information, please see our website: <http://www.law.ufl.edu>

[Departments and Programs within Levin College of Law](#)

[Levin College of Law Courses](#)

Other

Comparative Law

College

[Fredric G. Levin College of Law](#)

Department/School

[Comparative Law Department](#)

Degrees Offered with a Major in Comparative Law

Master of Laws in Comparative Law

without a concentration

concentration in Tropical Conservation and Development

Courses

- LAW 7801: Introduction to the Legal System of the United States for LL.M in Comparative Law, Part II
- LAW 7805: Legal Writing and Research for LL.M. in Comparative Law
- LAW 7906: Directed Research for LL.M. in Comparative Law
- LAW 7932: Introduction to the Legal System of the United States for LL.M in Comparative Law, Part I

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II

- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

Environmental and Land Use Law

College

[Fredric G. Levin College of Law](#)

Department/School

[Environmental and Land Use Law Department](#)

Environmental and Land Use Law Program Information

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This one-year post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to spend an academic year full-time on the UF campus developing in-depth expertise in environmental and land use law.

Students admitted to the program work with the LL.M. Program Director to design an individual course of study tailored to their particular interests. In addition to a broad range of academic courses, UF Law offers a wealth of environmental skills and field courses such as the Conservation Clinic, Environmental Dispute Resolution and Wetlands & Watersheds. LL.M. students may also apply for a seat in the spring break field course (previous offerings have included Sustainable Development in Belize, Central America, and Ocean and Coastal Law in Marineland, Florida); the South Florida Everglades field course offered in May (course availability varies) and the Summer Environmental Law Study Abroad Program in Costa Rica.

The program also capitalizes on the many outstanding programs at the University of Florida in disciplines related to environmental and land use law practice, including wildlife ecology, environmental engineering, urban and regional planning, and interdisciplinary ecology. The UF LL.M. program is unique in requiring that 6 of the 26 required credit hours must be from relevant graduate level courses that have substantial non-law content and are offered outside the law school or jointly by the law school and another department. In addition to completing required coursework, LL.M. candidates must complete a written project in connection with a seminar or the Conservation Clinic.

Six credit hours of coursework in graduate-level courses listed outside the law school or jointly listed by the law school and another graduate department and approved by the LL.M. Program Director are required. For elective courses, please visit <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law/degree-requirements>.

For more information about the Environmental and Land Use Law Program, please see our website: <http://www.law.ufl.edu/academics/degree-programs/ll-m-environmental-land-use-law>, or contact:

University of Florida
Levin College of Law
P.O. Box 117625
Gainesville, FL 32611-7625
Phone: 352-273-0777
Email: elulp@law.ufl.edu

Degrees Offered with a Major in Environmental and Land Use Law

Master of Laws in Environmental and Land Use Law

Courses

- LAW 7493: LL.M. Research: Selected Topics in Environmental & Land Use Law
- LAW 7916: Research Methods and Environmental Land Use Law

International Taxation

College

[Fredric G. Levin College of Law](#)

Department/School

[Taxation Department](#)

Degrees Offered with a Major in International Taxation

Master of Laws in International Taxation

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

Taxation

College

[Fredric G. Levin College of Law](#)

Department/School

[Taxation Department](#)

Degrees Offered with a Major in Taxation

Master of Laws in Taxation

Taxation Departmental Courses

- LAW 7602: Taxation of Property Transactions
- LAW 7604: Timing Issues in Taxation
- LAW 7611: Corporate Taxation I
- LAW 7613: Corporate Taxation II
- LAW 7614: U.S. International Tax I
- LAW 7615: U.S. International Tax II
- LAW 7617: Partnership Taxation
- LAW 7623: Taxation of Gratuitous Transfers
- LAW 7625: Income Taxation of Trusts and Estates
- LAW 7626: Estate Planning
- LAW 7632: Deferred Compensation
- LAW 7633: Tax Exempt Organizations
- LAW 7640: Civil Tax Procedure
- LAW 7641: Procedures in Tax Fraud Cases
- LAW 7650: State and Local Taxation
- LAW 7660: Tax Policy
- LAW 7680: Comparative Taxation
- LAW 7682: Income Tax Treaties
- LAW 7683: Transfer Pricing
- LAW 7905: Independent Study
- LAW 7910: Supervised Research
- LAW 7911: Federal Tax Research
- LAW 7931: Current Federal Tax Problems

College of Liberal Arts and Sciences

Interim Dean: David Richardson

Complete faculty listings: [Follow this link.](#)

The College of Liberal Arts and Sciences constitutes the intellectual core of the university. Its principal mission is to lead the academic quest to understand our place in the universe, and to help shape our society and environment.

For more information, please see our website: <http://www.clas.ufl.edu>

[Departments and Programs within the College of Liberal Arts and Sciences](#)

[College of Liberal Arts and Sciences Courses](#)

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology

- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology
- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation

- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

Anthropology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Anthropology Department](#)

Anthropology Program

The department of Anthropology offers graduate work leading to the Master of Arts (thesis or nonthesis option) and Doctor of Philosophy degrees. Requirements for these degrees are given in the General Information section of this catalog. For more information, visit the departmental website: <http://anthro.ufl.edu>. Graduate training is offered in cultural anthropology, archeology, and biological anthropology.

Each graduate student should specify a major field of study among the four fields of anthropology. In addition, each must choose one of three tracks: the specialized track in which a student focuses on one field of anthropology, the multifield track in which a student combines two fields, or the interdisciplinary track in which a student adds study in a second discipline to anthropology. Knowledge of a foreign language or of statistics may be required by the student's supervisory committee.

The department generally requires applicants to have acceptable scores on the GRE (verbal and quantitative portions) and a 3.2 overall grade point average based on a 4.0 system. Previous work in anthropology is an asset but not a strict requirement for admission. Potential applicants are urged to visit the website to familiarize themselves with the specializations of our faculty and to indicate in their application those faculty with whom they might work. Barring special circumstances, the Department restricts admission to applicants interested in earning a Ph.D. Entering students who have earned a master's degree may apply for direct admission to the doctoral program. Students who enter without an M.A. will generally work for their M.A. on the way to the Ph.D. This requires either a formally-defended thesis or written comprehensive exams combined with a high-quality paper or research report. With their adviser's permission, they may opt to bypass the M.A.

Students enrolled in the M.A. program who wish to continue their studies for a Ph.D. must apply to the Department for certification.

New students are admitted into the graduate program only in the fall of each academic year. The deadline for receiving completed applications for admission into the graduate program is December 15, though the department encourages early applications.

Degrees Offered with a Major in Anthropology

Doctor of Philosophy

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Historic Preservation

concentration in Tropical Conservation and Development

Master of Arts in Teaching

without a concentration

concentration in Tropical Conservation and Development

Courses

- ANG 5012: Fantastic Anthropology and Fringe Science
- ANG 5085: Collection and Analysis of Visual Data in Anthropology
- ANG 5126: Zooarcheology
- ANG 5158: Florida Archeology
- ANG 5162: Maya Archeoastronomy and Ethnoastronomy
- ANG 5164: The Inca and Their Ancestors
- ANG 5172: Historical Archeology
- ANG 5194: Principles of Archeology
- ANG 5255: Rural Peoples in the Modern World
- ANG 5265: Methods in Ethnoecology
- ANG 5266: Economic Anthropology
- ANG 5303: Women and Development
- ANG 5310: The North American Indian
- ANG 5323: Peoples of Mexico and Central America
- ANG 5327: Maya and Aztec Civilizations
- ANG 5330: The Tribal Peoples of Lowland South America
- ANG 5331: Peoples of the Andes
- ANG 5336: The Peoples of Brazil
- ANG 5341: Anthropology of the Caribbean
- ANG 5352: Peoples of Africa
- ANG 5354: Anthropology of Modern Africa
- ANG 5395: Visual Anthropology
- ANG 5420: Social Network Analysis in Cultural Anthropology
- ANG 5426: Kinship and Social Organization
- ANG 5464: Culture and Aging
- ANG 5485: Research Design in Anthropology
- ANG 5486: Computing for Anthropologists
- ANG 5488: Geospatial Analysis in Cultural Anthropology

- ANG 5525: Human Osteology and Osteometry
- ANG 5531: Culture and Nutrition
- ANG 5546: Seminar: Human Biology and Behavior
- ANG 5620: Language and Culture
- ANG 5621: Proseminar in Cultural and Linguistic Anthropology
- ANG 5700: Applied Anthropology
- ANG 5702: Anthropology and Development
- ANG 5711: Culture and International Business
- ANG 5743: Human Rights Missions in Forensic Anthropology
- ANG 5744: International Forensic Fieldwork in Human Rights
- ANG 5824L: Field Sessions in Archeology
- ANG 6034: Seminar in Anthropological History and Theory
- ANG 6086: Historical Ecology
- ANG 6091: Research Strategies in Anthropology
- ANG 6110: Archaeological Theory
- ANG 6112: Critical Archaeology of Time
- ANG 6113: Ideology and Symbolic Approaches in Archaeology
- ANG 6120C: Environmental Archaeology
- ANG 6122C: Archaeological Ceramics
- ANG 6128: Lithic Technology
- ANG 6146: Archaeology of Maritime Adaptations
- ANG 6155: Southeastern U.S. Prehistory
- ANG 6161: Problems in Caribbean Prehistory
- ANG 6165: Problems in South American Archaeology
- ANG 6183: Laboratory Training in Archeology
- ANG 6185: Ethnoarchaeology
- ANG 6186: Seminar in Archeology
- ANG 6187: Experimental Archaeology
- ANG 6190: Seminar in Contemporary Methods
- ANG 6191: Archaeology of Death
- ANG 6224: Painted Books of Ancient Mexico: Codices of Aztecs, Mixtecs, and Mayas
- ANG 6241: Special Topics in Ecology of Religion
- ANG 6267: Anthropology, Geographic Information System, and Human Ecosystems
- ANG 6273: Legal Anthropology
- ANG 6274: Principles of Political Anthropology
- ANG 6286: Seminar in Contemporary Theory
- ANG 6304: Seminar in Gender and International Development
- ANG 6314: Peoples of the Arctic
- ANG 6351: Peoples and Culture in Southern Africa
- ANG 6360: Ethnicity in China
- ANG 6366: Family, Gender, and Population in China
- ANG 6407: Sickness and Power
- ANG 6421: Landscape, Place, Dwelling
- ANG 6452: Race and Racism in Anthropological Theory
- ANG 6453: Human Rights in Cross-Cultural Perspective
- ANG 6478: Evolution of Culture
- ANG 6481: Research Methods in Cognitive Anthropology
- ANG 6483L: Anthropology of Science
- ANG 6511: Seminar in Physical Anthropology
- ANG 6514: Human Origins
- ANG 6524: Skeletal Mechanics in Biological Anthropology
- ANG 6532: Molecular Genetics of Disease
- ANG 6547: Human Adaptation
- ANG 6552: Primate Behavior
- ANG 6553: Primate Cognition
- ANG 6555: Issues in Evolutionary Anthropology
- ANG 6583: Primate Functional Morphology
- ANG 6591L: Advanced Molecular Anthropology Laboratory
- ANG 6592: Seminar in Molecular Anthropology
- ANG 6593L: Biological Anthropology Laboratory
- ANG 6701: Seminar on Applied Anthropology
- ANG 6737: Medical Anthropology
- ANG 6740: Advanced Techniques in Forensic Anthropology
- ANG 6801: Ethnographic Field Methods
- ANG 6905: Individual Work
- ANG 6910: Supervised Research
- ANG 6915: Research Projects in Social, Cultural, and Applied Anthropology
- ANG 6917: Professions of Anthropology
- ANG 6930: Special Topics in Anthropology
- ANG 6940: Supervised Teaching
- ANG 6945: Internship in Anthropology
- ANG 6971: Research for Master's Thesis
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation

Astronomy

College

[College of Liberal Arts and Sciences](#)

Department/School

[Astronomy Department](#)

Astronomy Program Information

The Astronomy Department offers graduate programs leading to the M.S., M.S.T. or Ph.D. degrees in astronomy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

Planetary Systems: Observational and theoretical studies concentrate in the areas of planet formation, the dynamical evolution of planetary systems and the detection and characterization of extrasolar planets. Members of the department are active in Kepler Mission and ground-based Dopple surveys to identify extrasolar planets. Researchers are also active in studying the origins and orbital evolution of interplanetary dust and small bodies in the solar system and around nearby stars.

Stellar populations: Observational studies concentrate on resolved stars in the Milky Way and nearby galaxies. Studies of particular classes of stars include various types of binary stars and blue stragglers. The goal of these studies is to apply our theoretical understanding of stellar structure and evolution to the properties of stars in a variety of environments.

Origins of stars and planets: Observational studies focus on the properties of giant molecular clouds, the collapse of molecular cloud cores, the formation of stars in clusters and in isolation, and the formation and evolution of circumstellar and protoplanetary disks. The department is active in several star formation surveys, involving many international ground- and space-based facilities. Theoretical studies emphasize the development of analytic models and numerical simulations, as well as their testing against observational constraints.

Structure and evolution of galaxies: Observational programs use multi-wavelength photometry of stars and star clusters in galaxies throughout the Local Group and in nearby groups, including the Milky Way, to study galaxy evolution. Other observations focus on the structure and dynamics of galaxies and their interstellar medium using neutral hydrogen (HI) and molecules such as carbon monoxide.

Extragalactic astronomy and cosmology: Observational programs investigate the nature of ultra-luminous galaxies, active galactic nuclei (AGNs), and the formation and chemical evolution of distant galaxies and clusters of galaxies. Theoretical investigations focus on the emission/absorption features in AGN spectra, the star-formation and chemical-evolution properties of galaxies, and applications of general relativity and particle physics to conditions in the very early universe.

Instrumentation programs: The UF Infrared Astrophysics Laboratory is a world leader in designing and constructing advanced near-infrared and mid-infrared instrumentation for major telescopes around the world, including the 8m Gemini North and South Telescopes and the 10m Gran Telescopio Canarias. Instrumentation is also developed in the area of high precision Doppler techniques for planet searches and the development of high contrast imaging techniques for direct imaging of extrasolar planets.

Computing facilities: The Astronomy Department maintains a network of high-performance computers running Linux and OS-X. The local network is maintained by a full-time systems manager. Astronomy students have access to supercomputing facilities maintained by the UF High Performance Computing Center, including thousands of CPU cores with high-performance networking.

Degrees Offered with a Major in Astronomy

Doctor of Philosophy

Master of Science

Master of Science in Teaching

Courses

- AST 5113: Solar System Astrophysics I
- AST 5114: Solar System Astrophysics II
- AST 6112: Solar System Astrophysics
- AST 6215: Stellar Structure and Function
- AST 6245: Stellar Atmospheres and Radiative Processes
- AST 6309: Galactic and Extragalactic Astronomy
- AST 6336: Interstellar Matter
- AST 6415: Observational Cosmology

- AST 6416: Physical Cosmology
- AST 6506: Celestial Mechanics
- AST 6725C: Observational Techniques
- AST 6905: Individual Work
- AST 6910: Supervised Research
- AST 6925: Departmental Colloquium
- AST 6935: Frontiers in Astronomy
- AST 6936: Astronomy Journal Club
- AST 6971: Research for Master's Thesis
- AST 7939: Special Topics
- AST 7979: Advanced Research
- AST 7980: Research for Doctoral Dissertation

Botany

College

[College of Liberal Arts and Sciences](#)

Department/School

[Biology Department](#)

Botany Program Information

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

The Department of Biology offers graduate work in Botany leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The Department offers studies in the areas of biochemistry, molecular biology, cell biology, physiology, ecology, systematics, and evolution. Specific areas of specialization include anatomy/morphology with emphasis on extant and fossil vascular plants; ecology and environmental studies including ecosystem ecology, conservation biology and genetics, fire ecology, exotic invasive species, and tropical botany and ecology; cell biology with emphasis on the cytoskeleton and cell morphogenesis; physiology, biochemistry, and molecular biology with emphasis on photosynthesis, growth and development of angiosperms, protein phosphorylation and signal transduction, global analysis of spatial patterns of gene expression; plant secondary metabolism and proteomics; systematics with emphasis on DNA- and morphology-based phylogenetic analyses, phylogeographic studies, molecular evolution/development, and monographic and floristic studies. To be considered for admission to graduate studies, students should have:

- The equivalent of an undergraduate degree in botany or biology with basic course work in their area of interest
- Acceptable GRE scores (verbal, quantitative, and analytical writing)
- Letters of recommendation
- International students must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program. The program of graduate study for each student will be determined by a supervisory committee, and deficiencies in background coursework will be made up early in the graduate program. No more than 9 credits of BOT 6905 may be used to satisfy the credit requirements for a master's degree.

Degrees Offered with a Major in Botany

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Botany Courses

- BOT 5225C: Plant Anatomy
- BOT 5305: Paleobotany
- BOT 5505C: Intermediate Plant Physiology
- BOT 5625: Plant Geography
- BOT 5655C: Physiological Plant Ecology
- BOT 5685C: Tropical Botany
- BOT 5695C: Ecosystems of Florida
- BOT 5725C: Taxonomy of Vascular Plants
- BOT 6508C: Proteomics Theory and Practice
- BOT 6516: Plant Metabolism
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- BOT 6726C: Principles of Systematic Biology
- BOT 6905: Individual Studies in Botany
- BOT 6910: Supervised Research
- BOT 6927: Advances in Botany
- BOT 6935: Special Topics
- BOT 6936: Graduate Student Seminar
- BOT 6940: Supervised Teaching
- BOT 6943: Internship in College Teaching
- BOT 6971: Research for Master's Thesis
- BOT 7979: Advanced Research
- BOT 7980: Research for Doctoral Dissertation
- PCB 5046C: Advanced Ecology
- PCB 5338: Principles of Ecosystem Ecology
- PCB 5356: Tropical Ecology
- PCB 6675C: Evolutionary Biogeography
- PLP 6656C: Fungal Biology

Chemistry

College

[College of Liberal Arts and Sciences](#)

Department/School

[Chemistry Department](#)

Chemistry Program

The department offers the Master of Science (thesis or nonthesis) and Doctor of Philosophy degrees with a major in chemistry and specialization in biochemistry, analytical, organic, inorganic, or physical chemistry. The nonthesis degree Master of Science in Teaching is also offered with a major in chemistry. New graduate students should have adequate undergraduate training in inorganic, analytical, organic, and physical chemistry. Normally this will include as a minimum a year of general chemistry, one semester of quantitative analysis, one year of organic chemistry, one year of physical chemistry, and one semester of advanced inorganic chemistry. Additional courses in instrumental analysis, biochemistry, and advanced physical and organic chemistry are desirable. Deficiencies in any of these areas may be corrected during the first year of graduate study. Such deficiencies are determined by a series of placement tests given prior to registration, and the results of these tests are used in planning the student's program. Doctoral candidates are required to complete at least 9 semester credits of courses specified by the division of the Chemistry Department in which they choose to specialize, as well as at least 9 semester credits of out-of-major-division courses. There are some minor restrictions on courses that may be used to meet this requirement. Additional courses may be required by the student's supervisory committee or major professor.

Ph.D. candidates must serve not less than one year as teaching assistants. This requirement will be waived only when, in the opinion of the department, unusual circumstances justify such action. A chemical physics option is offered for students who will be doing research in areas of physical chemistry which require a strong background in physics. For this option, a student meets the departmental requirements for concentration in physical chemistry, except that only one out-of-major division course is required. In addition, a minimum of 14 credits in 4000 level or higher physics courses or a minimum of 7 such credits in physics and 7 in 4000 level or higher mathematics courses is required. Candidates for the master's degree are required to complete any two core courses. The Master of Science degree in chemistry has both thesis and nonthesis options. The nonthesis degree Master of Science in Teaching is offered with a major in chemistry and requires a written paper of substantial length (30 to 50 pages) on an approved topic pertaining to some phase of chemistry, under the course [CHM 6905](#).

Degrees Offered with a Major in Chemistry

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Imaging Science and Technology

Master of Science

Master of Science in Teaching

Courses

- CHM5224: Basic Principles for Organic Chemistry
- CHM5235: Organic Spectroscopy
- CHM5275: The Organic Chemistry of Polymers
- CHM5305: Chemistry of Biological Molecules
- CHM5413L: Advanced Physical Chemistry Laboratory
- CHM5511: Physical Chemistry of Polymers
- CHM6036: Chemical Biology
- CHM6037: Chemical Biology and Biochemistry Seminar
- CHM6153: Electrochemical Processes
- CHM6154: Chemical Separations
- CHM6155: Spectrochemical Methods
- CHM6158C: Electronics and Instrumentation
- CHM6159: Mass Spectrometric Methods
- CHM6165: Chemometrics
- CHM6180: Special Topics in Analytical Chemistry
- CHM6190: Analytical Chemistry Seminar
- CHM6225: Advanced Principles of Organic Chemistry
- CHM6226: Advanced Synthetic Organic Chemistry
- CHM6227: Topics in Synthetic Organic Chemistry
- CHM6251: Organometallic Compounds
- CHM6271: The Chemistry of High Polymers
- CHM6301: Enzyme Mechanisms
- CHM6302: Chemistry and Biology of Nucleic Acids
- CHM6303: Methods in Computational Biochemistry and Structural Biology
- CHM6306: Special Topics in Biological Chemistry Mechanisms
- CHM6381: Special Topics in Organic Chemistry
- CHM6390: Organic Chemistry Seminar Presentation
- CHM6391: Organic Chemistry Seminar Discussion
- CHM6430: Chemical Thermodynamics
- CHM6461: Statistical Thermodynamics
- CHM6470: Chemical Bonding and Spectra I
- CHM6471: Chemical Bonding and Spectra II
- CHM6480: Elements of Quantum Chemistry
- CHM6490: Theory of Molecular Spectroscopy
- CHM6520: Chemical Physics
- CHM6580: Special Topics in Physical Chemistry
- CHM6586: Computational Chemistry
- CHM6590: Physical Chemistry Seminar
- CHM6620: Advanced Inorganic Chemistry I
- CHM6621: Advanced Inorganic Chemistry II
- CHM6626: Applications of Physical Methods in Inorganic Chemistry
- CHM6628: Chemistry of Solid Materials
- CHM6670: Inorganic Biochemistry
- CHM6680: Special Topics in Inorganic Chemistry
- CHM6690: Inorganic Chemistry Seminar
- CHM6720: Chemical Dynamics
- CHM6905: Individual Problems, Advanced
- CHM6910: Supervised Research
- CHM6934: Advanced Topics in Chemistry
- CHM6935: Chemistry Colloquium
- CHM6943: Internship in College Teaching
- CHM6971: Research for Master's Thesis
- CHM7485: Special Topics in Theory of Atomic and Molecular Structure
- CHM7979: Advanced Research
- CHM7980: Research for Doctoral Dissertation
- CHS 5110L: Radiochemistry Laboratory

Classical Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Classics Department](#)

Classical Studies Program Information

(The following information refers only to our on-campus programs. Please visit the [Distance Learning Homepage](#) for further details on our Distance Learning programs, especially aimed at elementary, secondary, or community college teachers.)

Ph.D. in Classical Studies

The Ph.D. program in classical studies is a traditional course of study in Greek and Latin language and literature that prepares students for careers in research and teaching at colleges and universities. Students awarded a TA position receive a stipend plus a full tuition waiver. The University also offers competitive fellowships. The department routinely provides research fellowships for its Ph.D. candidates. Department awards are also available for study abroad opportunities. Students are expected to become Florida residents after one year.

M.A. in Classical Studies

The Department of Classics at the University of Florida offers an M.A. degree in Classical Studies. Students awarded a TA position receive a stipend plus a full tuition waiver. Students are expected to become Florida residents after one year.

The **Master of Arts in Classical Studies** is recommended for students who plan to continue their studies at the doctoral level

For minimum degree requirements, see the [Graduate Degrees](#) section of the catalog. For additional requirements, please see the department website: <http://classics.ufl.edu>.

Admissions Requirements to the Classical Studies Programs:

Admission into the university and the program for Classics is ultimately determined and granted according to the rules established by the Graduate School of the University of Florida (see the Graduate Catalog).

Submission of Graduate Record Examination (GRE) scores, with a minimum score of 1000 (combined verbal and quantitative). Competitive applicants for funding awards from the department typically have a combined score of at least 1200.

Ph.D. program (Level II) requirements include:

1. M.A. in Classics or the equivalent.
2. A GPA of at least 3.25 in previous graduate work, and an undergraduate average of at least 3.0.
3. Demonstrated reading knowledge of German, French, Italian or Modern Greek (competency in the second language to be demonstrated before the completion of the second year at Level II).
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the applicant's record gives evidence of the capacity to undertake and complete guided independent reading and research at the doctoral level.

Master's program (Level I) requirements include:

1. Extensive study of Greek and Latin, with at least three years of coursework in one language and at least two years in the other language.
2. At least six hours in one or more of the following: ancient history, ancient art, archaeology, philosophy, literary criticism, linguistics.
3. A GPA of at least a 3.0.
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the record shows promise on other grounds.

Degrees Offered with a Major in Classical Studies

Doctor of Philosophy

Master of Arts

Classics Departmental Courses

- CLA6125: Augustan Age
- CLA6515: Roman Dynasty: Nero and the Julio-Claudians
- CLA6795: Greek and Roman Archeology
- CLA6805: The Classical Research Tradition
- CLA6885: Roman Law and Society
- CLA6895: Athenian Law and Society
- CLA6905: Individual Work
- CLA6930: Greece and the Near East
- CLT6295: Greek Drama in Translation
- GRE6425: Greek Prose Composition
- GRE6755: Epigraphy
- GRK6905: Individual Work in Modern Greek
- GRW6105: The Greek Tradition
- GRW6216: Greek Novel
- GRW6316: Greek Tragedy
- GRW6317: Ancient Greek Comedy
- GRW6345: Greek Lyric Poetry
- GRW6346: Pindar
- GRW6347: Homer
- GRW6386: Greek Historians
- GRW6506: Plato
- GRW6705: Attic Orators
- GRW6905: Individual Work
- GRW6930: Special Topics in Greek Literature
- GRW6931: Comparative Study of Greek and Latin Literature
- GRW6971: Research for Master's Thesis

- GRW 7979: Advanced Research
- GRW 7980: Research for Doctoral Dissertation
- LAT 6425: Latin Prose Composition
- LNW 5325: Roman Elegiac Poetry
- LNW 5655: Roman Poets: Horace
- LNW 5665: Roman Poets: Vergil
- LNW 5675: Roman Poets: Ovid
- LNW 5931: Comparative Study of Latin and Greek Literature
- LNW 6105: The Roman Tradition
- LNW 6225: The Ancient Roman Novel
- LNW 6335: Roman Oratory and Rhetoric
- LNW 6365: Studies in Roman Satire
- LNW 6385: Roman Historians
- LNW 6495: Late Latin Literature
- LNW 6905: Individual Work
- LNW 6933: Special Topics in Latin Literature
- LNW 6935: Proseminar in Classics
- LNW 6940: Supervised Teaching
- LNW 6971: Research for Master's Thesis
- LNW 7979: Advanced Research
- LNW 7980: Research for Doctoral Dissertation

Computer Science

College

[College of Liberal Arts and Sciences](#)

Department/School

[Computer and Information Science and Engineering Department](#)

Computer Science Program Information

The Department of Computer and Information Science and Engineering offers the Master of Science degree in Computer Science through the College of Liberal Arts and Sciences. Minimum requirements for this degree are given in the [Graduate Degrees](#) section of this catalog.

The department offers graduate study and research in Algorithms, Computer Vision, Databases, Graphics and Modeling, Machine Learning, Networks, and Systems, with active labs in Bioinformatics; Computational Science and Intelligence; Vision, Graphics and Medical Imaging; Database Systems Research and Development; Data Science Research; Mobile and Pervasive Computing; Human-Centered Computing; and Cybersecurity.

Specific degree requirements and options may be found here: <http://cise.ufl.edu/academics/grad>

Instructions for application for admission may be found here:

<http://cise.ufl.edu/admissions/grad>

Degrees Offered with a Major in Computer Science

Master of Science

Computer and Information Science and Engineering Departmental Courses

- CAP 5100: Human-Computer Interaction
- CAP 5416: Computer Vision
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5635: Artificial Intelligence Concepts
- CAP 5705: Computer Graphics
- CAP 5805: Computer Simulation Concepts
- CAP 6137: Malware Reverse Engineering
- CAP 6402: Aesthetic Computing
- CAP 6516: Medical Image Analysis
- CAP 6610: Machine Learning

- CAP 6615: Neural Networks for Computing
- CAP 6617: Advanced Machine Learning
- CAP 6685: Expert Systems
- CAP 6701: Advanced Computer Graphics
- CDA 5155: Computer Architecture Principles
- CDA 5636: Embedded Systems
- CDA 6156: High Performance Computer Architecture
- CEN 5035: Software Engineering
- CEN 6070: Software Testing and Verification
- CEN 6075: Software Specification
- CIS 6905: Individual Study
- CIS 6910: Supervised Research
- CIS 6930: Special Topics in CIS
- CIS 6935: Graduate Seminar
- CIS 6940: Supervised Teaching
- CIS 6971: Research for Master's Thesis
- CIS 7979: Advanced Research
- CIS 7980: Research for Doctoral Dissertation
- CNT 5106C: Computer Networks
- CNT 5410: Computer and Network Security
- CNT 5517: Mobile Computing
- CNT 6107: Advanced Computer Networks
- CNT 6885: Distributed Multimedia Systems
- COP 5536: Advanced Data Structures
- COP 5555: Programming Language Principles
- COP 5615: Distributed Operating System Principles
- COP 5618: Concurrent Programming
- COP 5625: Programming Language Translators
- COP 5725: Database Management Systems
- COP 6726: Database System Implementation
- COP 6755: Distributed Database Systems
- COT 5405: Analysis of Algorithms
- COT 5442: Approximation Algorithms
- COT 5519: Sparse Matrix Algorithms
- COT 5520: Computational Geometry
- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

College of Engineering Courses

- EEE 5354L: Semiconductor Device Fabrication Laboratory
- EGN 5010L: NRF Training Lab
- EGN 5949: Practicum/Internship/Cooperative Work Experience
- EGN 6640: Entrepreneurship for Engineers
- EGN 6642: Engineering Innovation
- EGN 6039: Engineering Leadership

Counseling Psychology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Psychology Department](#)

Degrees Offered with a Major in Counseling Psychology

Doctor of Philosophy

Psychology Departmental Courses

- CBH 6056: Comparative Psychology
- CLP 6169: Seminar: Psychology and Deviant Behavior
- CLP 7525: Best Methods for Studying Psychological Change
- DEP 6057: Advanced Developmental Psychology I
- DEP 6058: Advanced Developmental Psychology II
- DEP 6059: Seminar: Special Topics in Developmental Psychology
- DEP 6099: Survey of Developmental Psychology
- DEP 6216: Psychological Disturbances of Children
- DEP 6406: Advanced Adulthood and Aging
- DEP 6409: Seminar: Adult Development and Aging
- DEP 6799: Current Research Methods in Developmental Psychology
- DEP 6936: Current Research in Developmental Psychology
- DEP 7608: Theories of Developmental Psychology
- EAB 5436: Behavioral Pharmacology
- EAB 6099: Survey of Behavior Analysis
- EAB 6118: Theoretical Foundations of Behavior Analysis
- EAB 6707: Applied Behavior I
- EAB 6712: Experimental Psychopathology
- EAB 6716: Behavior Analysis in Developmental Disabilities
- EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research
- EAB 6750: Quantitative Methods
- EAB 6780: Ethics and Professional Issues
- EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior
- EAB 6939: Seminar: Special Topics in Applied Behavior Analysis
- EAB 7089: Advanced Seminar: Experimental Analysis of Behavior
- EAB 7090: Verbal Behavior
- EXP 6099: Survey of Cognition and Sensory Processes
- EXP 6609: Seminar: Cognition
- EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes
- GEY 7408: Psychotherapy with Older Adults
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 7431: Advanced Family Counseling
- PCO 6057: Psychology of Counseling I
- PCO 6058: Psychology of Counseling II
- PCO 6059: Psychology of Counseling III
- PCO 6278: Diversity and Multiculturalism in Counseling Psychology
- PCO 6316C: Psychological Assessment I
- PCO 6317C: Psychological Assessment II
- PCO 6931: History and Contemporary Issues in Counseling Psychology
- PCO 6939: Seminar: Current Topics in Counseling Psychology
- PCO 7217: Professional Ethics and Skills in Counseling Psychology
- PCO 7247: Group Counseling/Psychology
- PCO 7537: Vocational Psychology
- PCO 7944: Practicum in Counseling Psychology
- PCO 7945: Advanced Practicum in Counseling Psychology
- PCO 7949: Internship in Counseling Psychology
- PPE 6059: Seminar in Personality
- PSB 5445: Drug Use and Abuse
- PSB 5935: Seminar in Physiological Psychology
- PSB 6082: Neuroethology
- PSB 6087: Advanced Physiological Psychology
- PSB 6088L: Behavioral Neurobiology
- PSB 6099: Survey of Physiological and Comparative Psychology
- PSB 7248: Neurobehavioral Relations
- PSB 7249: Seminar in Neural Mechanisms and Behavior
- PSY 6608: History of Psychology
- PSY 6905: Individual Work
- PSY 6910: Supervised Research
- PSY 6930: Topics in Psychology
- PSY 6939: Seminar: The Teaching of Psychology
- PSY 6940: Supervised Teaching
- PSY 6971: Research for Master's Thesis
- PSY 7979: Advanced Research
- PSY 7980: Research for Doctoral Dissertation
- SOP 6099: Survey of Social Psychology
- SOP 6219C: Advanced Research Techniques in Social-Personality Psychology
- SOP 6409: Seminar: Current Topics in Social-Personality Psychology
- SOP 6419: Seminar: Attitudes and Social Cognition
- SOP 6509: Seminar: Interpersonal Relations and Group Processes
- SOP 6929: Colloquium on Research in Social-Personality Psychology

Creative Writing

College

[College of Liberal Arts and Sciences](#)

Department/School

[English Department](#)**Creative Writing Program Information**

The Department of English offers the Master of Fine Arts degree in creative writing. Complete descriptions of the minimum requirements for the M.F.A. are provided in the [Graduate Degrees](#) section of this catalog. Full information concerning courses of study is available from the graduate coordinator.

Degrees**Master of Fine Arts****English Departmental Courses**

- AML 6017: Studies in American Literature Before 1900
- AML 6027: Studies in 20th-Century American Literature
- CRW 6130: Fiction Writing
- CRW 6166: Studies in Literary Form
- CRW 6331: Verse Writing
- CRW 6906: Individual Work
- ENC 5236: Advanced Business Writing for Accounting
- ENC 6428: Digital English
- ENG 6016: Psychological Approaches to Literature
- ENG 6075: Literary Theory: Issues
- ENG 6076: Literary Theory: Theorists
- ENG 6077: Literary Theory: Forms
- ENG 6137: The Language of Film
- ENG 6138: Studies in the Movies
- ENG 6906: Individual Work
- ENG 6910: Supervised Research
- ENG 6932: Film and Video Production
- ENG 6971: Research for Master's Thesis
- ENG 7939: Seminar in Variable Topics
- ENG 7979: Advanced Research
- ENG 7980: Research for Doctoral Dissertation
- ENL 6206: Studies in Old English
- ENL 6216: Studies in Middle English
- ENL 6226: Studies in Renaissance Literature
- ENL 6236: Studies in Restoration and 18th-Century Literature
- ENL 6246: Studies in Romantic Literature
- ENL 6256: Studies in Victorian Literature
- ENL 6276: Studies in 20th-Century British Literature
- LAE 6940: Supervised Teaching
- LAE 6947: Writing Theories & Practices
- LIT 5335: Approaches to Children's and Adolescent Literature
- LIT 6037: Studies in Verse
- LIT 6047: Studies in Drama
- LIT 6309: Communications and Popular Culture
- LIT 6236: Postcolonial Studies
- LIT 6308: Studies in Comics and Animation
- LIT 6327: Studies in Folklore
- LIT 6357: African-Amer. or African Diaspora Lit./Cultures
- LIT 6358: Theoretical Approaches to Black Cultural Studies
- LIT 6855: Issues in Cultural Studies
- LIT 6856: Cultural Studies: Interventions
- LIT 6857: Cultural Studies: Movements
- LIT 6934: Variable Topics
- SPC 6239: Studies in Rhetorical Theory

Criminology, Law and Society**College**[College of Liberal Arts and Sciences](#)

Department/School

[Sociology and Criminology & Law Department](#)

Criminology, Law and Society Program Information

Requirements for the M.A. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog. The graduate program in criminology and law has two areas of special emphasis: crime and justice, and law and society. The degree programs are research-based and prepare students to conduct original exploration into relevant problems, issues, and policies.

M.A. degree program: Admission to the master's degree program requires a bachelor's degree from a criminology/criminal justice or relevant social science or humanities program (political science, sociology, anthropology, psychology, philosophy, history, women's studies, etc.). Qualified students may enter the master's program as undergraduates through the combined B.A./M.A. program. Both M.A. options (thesis and nonthesis) require satisfactory completion of at least 36 credit hours.

Ph.D. degree program: The Doctor of Philosophy program includes a minimum of 90 semester hours of credit beyond the B.A. Students with a criminology or closely related M.A. received in the last 7 years from an accredited U.S. university may request that up to 30 hours credit from their M.A. work be counted toward this total. Those with an M.A. from this department may apply 36 hours. The Department requires Ph.D. students to complete at least 66 hours of course work (excluding research credits), including the M.A. hours. Qualifying examinations take place at the end of a student's course work.

Criminology, Law and Society/Law joint degree programs: The Department of Sociology and Criminology & Law (CLS) and the College of Law offer a joint degree program leading to an M.A. or a Ph.D. in Criminology, Law and Society and a J.D. in law. The joint degree programs enable students to earn both the degrees (the J.D. and the M.A. or the J.D. and the Ph.D.) in less time than would be required to earn both degrees consecutively. Students wishing to pursue the joint program must be admitted to both the Graduate School and the College of Law. These requirements include both the LSAT and GRE. Admission to one may precede the other. Students are encouraged to announce their intent to seek a joint degree as soon as possible. CLS allows 12 hours of appropriate law school courses to be credited toward the CLS degree. The 12 credits selected from the law curriculum must be approved by the graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in graduate courses to be credited toward the J.D.

Degrees

Doctor of Philosophy

Master of Arts

Courses

- CCJ 5934: Contemporary Issues in Criminology and Law
- CCJ 6936: Proseminar in Crime, Law, and Justice
- CJL 6039: Law and Society
- CCJ 6063: Communities and Crime
- CCJ 6658: Drugs, Crime, and Policy
- CCJ 6285: Criminal Justice Process
- CCJ 6619: Crime and the Life Course
- CCJ 6643: White Collar Crime
- CCJ 6705: Research Methods in Crime, Law, and Justice
- CCJ 6708: Research Issues in Crime and Deviance
- CCJ 6712: Evaluation Research
- CCJ 6905: Independent Study
- CCJ 6910: Supervised Research
- CCJ 6920: Seminar in Criminological Theory
- CCJ 6971: Research for Master's Thesis
- CCJ 7742: Research Methods in Crime, Law, and Justice II
- CCJ 7921: Professional Development in Criminology, Law, and Society
- CCJ 7979: Advanced Research
- CCJ 7980: Research for Doctoral Dissertation
- CJC 6120: Corrections and Public Policy
- CJL 6089: Humanitarian Law
- CJL 6090: Law and Social Science
- CJL 6091: Anthropology of Law
- CJL 6095: Human Rights in Cultural Context

English

College

[College of Liberal Arts and Sciences](#)

Department/School

[English Department](#)

English Program Information

The Department of English offers the Master of Arts degree (thesis and nonthesis options) and the Doctor of Philosophy degree in English with the specializations listed below. Complete descriptions of the minimum requirements for the M.A., M.F.A., and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog. Specific areas of specialization for the Master of Arts and the Doctor of Philosophy include literature (Medieval, Renaissance, Restoration, and 18th-century and 19th-century British literature, American literature to 1900, contemporary British and American literature), American studies, critical theory, cultural studies, film and media studies, feminisms, genders and sexualities, postcolonial studies, composition and rhetoric, comics and visual rhetoric, and children's literature.

New graduate students should have completed an undergraduate English major of at least 24 semester hours, and doctoral students should have a Master of Arts degree in English. Full information concerning courses of study is available from the graduate coordinator.

Degrees

Doctor of Philosophy

Master of Arts

English Departmental Courses

- AML 6017: Studies in American Literature Before 1900
- AML 6027: Studies in 20th-Century American Literature
- CRW 6130: Fiction Writing
- CRW 6166: Studies in Literary Form
- CRW 6331: Verse Writing
- CRW 6906: Individual Work
- ENC 5236: Advanced Business Writing for Accounting
- ENC 6428: Digital English
- ENG 6016: Psychological Approaches to Literature
- ENG 6075: Literary Theory: Issues
- ENG 6076: Literary Theory: Theorists
- ENG 6077: Literary Theory: Forms
- ENG 6137: The Language of Film
- ENG 6138: Studies in the Movies
- ENG 6906: Individual Work
- ENG 6910: Supervised Research
- ENG 6932: Film and Video Production
- ENG 6971: Research for Master's Thesis
- ENG 7939: Seminar in Variable Topics
- ENG 7979: Advanced Research
- ENG 7980: Research for Doctoral Dissertation
- ENL 6206: Studies in Old English
- ENL 6216: Studies in Middle English
- ENL 6226: Studies in Renaissance Literature
- ENL 6236: Studies in Restoration and 18th-Century Literature
- ENL 6246: Studies in Romantic Literature
- ENL 6256: Studies in Victorian Literature
- ENL 6276: Studies in 20th-Century British Literature
- LAE 6940: Supervised Teaching
- LAE 6947: Writing Theories & Practices
- LIT 5335: Approaches to Children's and Adolescent Literature
- LIT 6037: Studies in Verse
- LIT 6047: Studies in Drama

- LIT 6309: Communications and Popular Culture
- LIT 6236: Postcolonial Studies
- LIT 6308: Studies in Comics and Animation
- LIT 6327: Studies in Folklore
- LIT 6357: African-Amer. or African Diaspora Lit./Cultures
- LIT 6358: Theoretical Approaches to Black Cultural Studies
- LIT 6855: Issues in Cultural Studies
- LIT 6856: Cultural Studies: Interventions
- LIT 6857: Cultural Studies: Movements
- LIT 6934: Variable Topics
- SPC 6239: Studies in Rhetorical Theory

French and Francophone Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

French and Francophone Studies Program Information

Bachelor's/master's program: French and Francophone Studies offers a combined 4/1 degree program that enables outstanding undergraduates to obtain both the B.A. and M.A. degrees after successful completion of 152 credit hours. The program is designed for the students who wish to continue their education in French and Francophone Studies past the bachelor's level but do not intend to pursue a doctorate or for students who wish to expand their training in a specific field before moving on to a doctoral program. Since students in the bachelor's/master's program have a graduate classification, students receiving undergraduate scholarships or Pell grants should check with the funding provider to make sure that they will not lose eligibility. □□

Degrees

Master of Arts

Master of Arts in Teaching

Courses

- FLE 6385: Foreign Languages Teaching Methods
- FRE 6060: Beginning French for Graduate Students I
- FRE 6061: Beginning French for Graduate Students II
- FRE 6466: Advanced Translation and Stylistics
- FRE 6735: Special Studies in French Linguistics
- FRE 6736: The French language in the Americas
- FRE 6785: French Phonetics and Phonology
- FRE 6827: Sociolinguistics of French
- FRE 6845: History of the French Language
- FRE 6855: Structure of French
- FRE 6856: French in the 21st Century
- FRE 6940: Supervised Teaching
- FRE 6943: Romance Language Teaching Methods
- FRE 6945: Practicum in Advanced College Teaching
- FRE 6956: Overseas Studies in French
- FRW 6217: Seventeenth-Century French Prose
- FRW 6276: Readings in Eighteenth-Century Literature
- FRW 6288: Twentieth-Century French Novel
- FRW 6315: Seventeenth-Century French Drama
- FRW 6328: Twentieth-Century French Theater

- FRW 6346: French Poetry of the Renaissance
- FRW 6355: Modern French Poetry
- FRW 6396: French Cinema
- FRW 6416: Later French Medieval Literature
- FRW 6536: The Romantic Period
- FRW 6556: French Realism and Naturalism
- FRW 6715: The Philosophic Movement
- FRW 6780: Studies in Francophone Literature and Culture (Excluding the Caribbean and Sub-Saharan Africa)
- FRW 6805: Introduction to Graduate Study and Research
- FRW 6825: French Critical Theory
 - FRW 6827
- FRW 6900: Special Study in French Literature
- FRW 6905: Individual Work
- FRW 6910: Supervised Research
- FRW 6938: Seminar in French Literature
- FRW 6971: Research for Master's Thesis
- FRW 7979: Advanced Research
- FRW 7980: Research for Doctoral Dissertation

Genetics and Genomics

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Medicine](#)

Genetics and Genomics Program

Chair: C. Mulligan

Graduate Coordinator: J. Bungert

Complete faculty listing: [Follow this link](#)

or visit media.news.health.ufl.edu/misc/mgm/UFGI/search/members-list4.php

The University of Florida Genetics Institute is a multi-college, multi-faceted research center. Good geneticists are integrative geneticists, who incorporate many different subfields of genetics into their work. The core mission is to improve the quality of life of people throughout the world via integrative, genetics-based research. Accordingly, faculty interests and graduate research opportunities include a wide range of areas from advances in gene therapy to understanding the maintenance of genetic variation, from understanding plant immune responses to developing improved algorithms for identifying regulatory motifs in DNA sequences, and from the challenges of bioethics to strategies for controlling malaria.

The highlight of the first year core training is the research rotations program. Student laboratory rotations are a particularly exciting feature of the genetics and genomics doctoral program, and epitomize the philosophy that good geneticists are broadly trained and integrative. Many current Graduate Faculty members still vividly recall the transforming effects of their rotations during graduate school—they didn't always end up where they expected! Rotations can open students' eyes to areas of genetics that they had never considered and entice them into considering brand new career opportunities. Each student will sample the breadth and depth of genetics research at UF by carrying out three 8-week modules consisting of design, implementation, and analysis of genetics experiments. Each rotation is conducted in close association with a Graduate Faculty member. To ensure that students fully experience the impressive breadth of genetics research at UF, their rotations are hosted by Graduate Faculty in at least two different colleges. Students will also take [PCB 5065](#), Advanced Genetics; [GMS 6181](#), Special Topics in Microbiology (among the topics are genomics and bioinformatics, and ethics for genetics research); [STA 6166](#), Statistical Methods I; and other electives as desired. In addition, throughout their tenure in the program, students participate in the Genetics Seminar, which is an opportunity to present their rotation plans and results of research to faculty and other students.

Prospective students should have strong backgrounds in biology and other hard sciences. Exceptional students with other backgrounds will also be considered. The research statement required as part of the application has a particularly important part in the admissions decision. Each applicant must describe his/her research interests, so that Graduate Faculty can evaluate knowledge of the discipline, fit to the program, and ability to articulate and motivate an interesting research problem. The required letters of recommendation are also extremely important in helping identify applicants with exceptional aptitude for genetics, and with research experience and promise.

For more information, write to the Genetics and Genomics Graduate Program, Attn: Graduate Secretary, Genetics Institute, University of Florida, PO Box 100196, Gainesville, FL 32610-0196.

Expanded information can be found at <http://www.ufgi.ufl.edu>.

Degrees Offered with a Major in Genetics and Genomics

Doctor of Philosophy

Doctor of Philosophy - Clinical and Translational Science

Courses

- AGR 6322: Advanced Plant Breeding
- ANG 6532: Molecular Genetics of Disease
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 7410: Advanced Gene Regulation

- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5805: Computer Simulation Concepts
- CIS 6930: Special Topics in CIS
- COT 5405: Analysis of Algorithms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 7979: Advanced Research
- FOR 7980: Research for Doctoral Dissertation
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6920: Genetics Journal Colloquy
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- HOS 6201: Breeding Perennial Cultivars
- PCB 5065: Advanced Genetics
- PCB 5235L: Experiments in Immunology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation
- STA5325: Fundamentals of Probability
- STA5328: Fundamentals of Statistical Theory
- STA6166: Statistical Methods in Research I
- STA6167: Statistical Methods in Research II
- STA6178: Genetic Data Analysis
- STA6208: Basic Design and Analysis of Experiments
- STA6329: Matrix Algebra and Statistical Computing
- STA6934: Special Topics in Statistics
- STA7979: Advanced Research
- STA7980: Research for Doctoral Dissertation
- ZOO 6927: Special Topics in Zoology
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

Geography

College

[College of Liberal Arts and Sciences](#)

Department/School

[Geography Department](#)

Geography Program Information

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees Section](#) of this catalog.

Degrees

Doctor of Philosophy

without a concentration

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Arts

without a concentration

concentration in Applications of Geographic Technologies

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Arts in Teaching

without a concentration

concentration in Geographic Information Systems

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Applications of Geographic Technologies

concentration in Geographic Information Systems

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- GEA 6419: Seminar: South America
- GEA 6466: Seminar on Geography of Amazonia
- GEA 6468: Resource Utilization and Conservation in Latin America
- GEO 5305: Environmental Biogeography
- GEO 5346: Natural Hazards
- GEO 5556: Geography of Innovation and Technological Change
- GEO 5605: Advanced Urban Geography
- GEO 5809: Geography of World Agriculture
- GEO 5905: Individual Study: Directed Reading
- GEO 5920: Geography Colloquium
- GEO 5945C: Field Course in Geography
- GEO 6118: Contemporary Geographic Thought and Research
- GEO 6119: Proposal Writing in Geography
- GEO 6160: Introduction to Quantitative Methods for Geographers
- GEO 6161: Intermediate Quantitative Methods for Geographers
- GEO 6166: Advanced Quantitative Methods for Spatial Analysis
- GEO 6255: Climatology
- GEO 6282: Fluvial Morphology
- GEO 6348: Floods Seminar
- GEO 6375: Land Change Science Seminar
- GEO 6429: Seminar: Cultural Geography
- GEO 6435: Seminar in Population
- GEO 6451: Medical Geography
- GEO 6495: Environment and Behavior
- GEO 6905: Individual Work
- GEO 6921: How to Survive and Thrive in Academia
- GEO 6931: Seminar in Cultural and Political Ecology
- GEO 6938: Selected Topics in Geography
- GEO 6971: Research for Master's Thesis
- GEO 7979: Advanced Research
- GEO 7980: Research for Doctoral Dissertation
- GEY 6341: Shelter and Care Options for U.S. Elderly
- GIS 5008C: Maps and Graphs
- GIS 5009C: Advanced Cartography
- GIS 5028C: Advanced Aerial Photo Interpretation

- GIS 5038C: Remote Sensing
- GIS 5107C: Geographic Information Systems in Research
- GIS 5306: Geographic Information Systems Applications in Environmental Systems
- GIS 5540: Business Geography and New Real Estate Market Analysis
- GIS 6104: Spatial Networks
- GIS 6425C: GIS Models for Public Health
- MET 5504: Weather and Forecasting
- MET 6530: Hurricanes
- MET 6565: Seminar in Atmospheric Teleconnections
- MET 6752: Atmospheric Data Analysis

Geology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Geological Sciences Department](#)

Geology Program

The Department of Geological Sciences offers programs leading to the Master of Science (thesis), the Master of Science in Teaching (nonthesis), and the Doctor of Philosophy degrees in geology. Requirements for these degrees are described in the General Information section of this catalog.

For admission to graduate status in the Department of Geological Sciences, a student must have a baccalaureate degree with a major in geology or a related field or its equivalent. Deficiencies in undergraduate preparation can be corrected by completing the undergraduate courses without credit while enrolled as a graduate student.

Applicants should take the GRE general test. The scores of this examination must be reported to the Department of Geological Sciences. Three letters of recommendation are also required for admission to the doctoral program and for financial aid applications at any level.

A minimum of 33 semester hours of graduate level courses are required for the Master of Science in geology. At least 24 hours must be in organized graduate-level geology courses (excluding research, teaching, special projects, etc.). Six hours of thesis research credit are required. All master's degrees are terminal; a separate and new application for admission to the doctoral program is required.

For the Master of Science in Teaching degree, at least 36 hours are required. Six of these hours must be in [GLY 6943](#) and at least 24 must be in organized graduate-level geology courses. The remaining 6 hours must be in approved electives. A minor in education is required. Candidates also must pass the final oral examination.

Of the 90 semester hours required for the Ph.D., 45 must be in formal, organized graduate-level class work (excluding individual work, supervised research and teaching, advanced research, dissertation, special projects, etc.). Remaining credits will be in [GLY 7979](#) and [GLY 7980](#), additional geology courses, or courses in a related field.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

Degrees

Doctor of Philosophy

without a concentration

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Hydrologic Sciences

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Courses

- BOT 5305: Paleobotany
- ESC 5211: Current Topics in Earth Science for Teachers
 - ESC 5211L
 - GLY 5020
 - GLY 5020L
 - GLY 5075
- GLY 5156: Geologic Evolution of North America
- GLY 5246: Geochemistry
- GLY 5245: Hydrogeochemistry
- GLY 5247: Surface and Ground Water Interactions
- GLY 5248: Physical Geochemistry
- GLY 5255: Organic Geochemistry and Geobiology
- GLY 5328: Advanced Igneous Petrology
- GLY 5455: Introduction to Geophysics and Tectonics
 - GLY 5456
- GLY 5466: Seismology and Earth Structure
- GLY 5468: Terrestrial Gravity and Magnetism
- GLY 5476: Environmental Geophysics
- GLY 5558C: Sedimentology
- GLY 5576: Continental Margin Stratigraphy

- GLY 5705: Geomorphology
- GLY 5736: Marine Geology
- GLY 5786L: Topics in Field Geology
- GLY 5827: Ground Water Geology
- GLY 6075: Global Climate Change: Past, Present, and Future
- GLY 6268C: Isotope Geology
- GLY 6297: Topics in Geochemistry
 - GLY 6424
- GLY 6425: Tectonics
- GLY 6519: Stratigraphy and Timescales
- GLY 6620C: Micropaleontology
 - GLY 6660C
- GLY 6695: Topics in Paleoclimatology
- GLY 6826: Hydrogeologic Modeling
- GLY 6862: Numerical Methods in Earth Sciences
- GLY 6905: Individual Work
- GLY 6931: Seminar
- GLY 6932: Special Topics in Geology
- GLY 6940: Supervised Teaching
- GLY 6943: Internship in College Teaching
- GLY 6971: Research for Master's Thesis
- GLY 7979: Advanced Research
- GLY 7980: Research for Doctoral Dissertation

German

Chair: M. Watt

Graduate Coordinator: W. Hasty

Complete faculty listings: [Follow this link](#).

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

Degrees

Doctor of Philosophy

without a concentration

concentration in Women's/Gender Studies

Master of Arts

German Literature and Cinema

- GET 6295: Weimar Cinema
- GET 6299: New German Cinema and its Legacy
- GEW6205: Foundations of Literary Study
- GEW6266: History of the German Novel
- GEW6305: Studies in German Drama and Theater
- GEW6405: Medieval and Renaissance Literature
- GEW6425: From Luther to Lessing: Early Modern German Literature
- GEW6535: German Classical and Romantic Literature
- GEW6558: Young Germany, Biedermeier, Realism, and Naturalism
- GEW6725: Culture and Society in the Weimar Republic
 - GEW 6726
- GEW6735: Modern German Literature
- GEW6736: Contemporary German Literature
- GEW6745: Literature and Culture in the Third Reich
- GEW6826: German Literary Theory
- GEW6900: Seminar in Germanic Languages and Literatures
- GEW6901: Special Study in Germanic Languages and Literatures
- GEW6905: Independent Study
- GEW6910: Supervised Research
- GEW6971: Research for Master's Thesis
- GEW7979: Advanced Research
- GEW7980: Research for Doctoral Dissertation

German Language

- GER 6060: Beginning German for Graduate Students I
- GER 6061: Beginning German for Graduate Students II
- GER 6505: German Culture
- GER 6940: Supervised Teaching

History

College

[College of Liberal Arts and Sciences](#)

Department/School

[History Department](#)

History Program

The Department of History offers the following graduate degrees: Master of Arts degree with fields of specialization in African, Asian, European, Latin American, and United States history and the Doctor of Philosophy degree with fields of specialization in African, European, Latin American, and United States history, or with a dual major which allows students to create their own major fields.

Master of Arts: This degree serves to prepare students for admission to a Ph.D. program, for a teaching career in high school or community colleges, or for a career in government or business. □□

Fields of specialization: □□

- African (East Africa, Southern Africa, West Africa) □□
- European (medieval, early modern, or modern) □□
- Latin American (colonial Latin America, post-Colonial Latin America, Brazil, and the Caribbean or Spanish America) □□
- United States history (early America, 19th century, 20th century) □□

Thesis option requirements: □□

- A minimum of 30 credit hours □□
- At least 12 graduate-level regular course credit hours in your major field. In European, you must take at least two seminars in your area of specialization. In U.S. history, you must take the 19th-century America readings seminar, either the 20th-century or early America readings seminar, and at least one research seminar. In Latin American and African history, you must take the relevant readings seminars in your area of specialization, one other readings seminar, and at least one research seminar. □□
- At least 6 graduate-level regular course credit hours outside the major field (but in the Department of History). We recommend that you invest these regular course hours in readings seminars. □□
- Take 3 hours of historiography ([HIS 6061](#)) by the fourth semester of graduate study. □□
- Take 3 regular course credit hours from outside the Department. These should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser. □□
- Complete a master's thesis. The semester you graduate, you must be registered for a minimum of 3 thesis research hours ([HIS 6971](#)) in the fall or spring terms or 2 in a summer term. Your thesis should demonstrate your ability to handle the primary-source material of your field, and a working knowledge of the secondary literature; and should demonstrate your ability to present research results in a coherent, well-written study. The student must complete the thesis and make it available to readers 2 weeks before the oral examination, complete the application

for the degree at the Office of the University Registrar before the deadline, and take the examination.□□

–Each student must pass a final comprehensive oral examination at the end of the program.□□

Non-thesis option requirements:□□

–A minimum of 30 credit hours.□□

–At least 12 graduate-level regular course credit hours inside your major field. In European, you must take at least two seminars in your area of specialization. In U.S. history, you must take the 19th-century American readings seminar, either the 20th-century or the early America readings seminar, and at least one research seminar. In Latin American or African history, you must take the relevant readings seminars in your area of specialization, one other readings seminar, and at least one research seminar.□□

–At least 6 graduate-level regular course credit hours outside your major field (but in the Department of History). We recommend that you invest these regular course hours in readings seminars.□□

–Take 3 hours of historiography ([HIS 6061](#)) by your fourth semester of graduate study.□□

–Take 3 regular course credit hours from outside the Department; these should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser.□□

–Complete a research seminar and/or a nonthesis project in history. Your primary goal in either is to complete an article-length essay (approximately 35 to 40 pages) of publishable or near-publishable quality. The essay should be based largely on primary sources.□□

–You must pass a final comprehensive oral and written examination conducted by your supervisory committee.□□

Supervisory committee for the M.A.: The committee normally consists of the chair and two other members of the graduate faculty. Additional members may be added if desirable. The committee assists in planning and supervising the student's program and conducts the final examination. The chair is also the thesis director if that option is chosen.□

Duration: The M.A. program can be completed in 3 semesters of full-time registration but may take longer. The Department believes that normally no more than 4 semesters of full-time registration should be spent on the degree. These semesters need not be consecutive. The Board of Education has established 60 credit hours as a maximum for the master's degree. Up to 6 credits of graduate-level courses taken at another school with a grade of B or better may be transferred into the master's program if approved by the Graduate School.

Bachelor's/master's program: The Department offers a combined 4/1 degree program that enables outstanding undergraduates to obtain both the B.A. and M.A. degrees in history after successful completion of 150 credit hours. The program is designed for the students who wish to continue their education in history past the bachelor's level but do not intend to pursue a doctorate in history or for students who wish to expand their training in a specific field before moving on to a doctoral program. The department offers a 4/1 degree program in the standard M.A. fields of study and offers two specialized tracks: oral history and academic publishing. Please see the Department website for more information. Students in this program are not eligible for departmentally controlled financial aid.

Doctor of Philosophy requirements:□□

–Professional competence in your major field, or major fields for students pursuing a dual degree.□□

–Knowledge of a minor, which may be drawn from the approved major fields of specialization for the doctorate (African, European, Latin American, or U.S. history), from approved minor fields (Atlantic history, gender, legal history), or may be self designed as a thematic research or teaching field. It must include at least 3 hours outside the historical area that defines your major field. Note: Students pursuing a dual major do not take a department minor field.

–At least 3 regular course credit hours from outside the Department; these should be graduate-level hours, but undergraduate 3000 or 4000 level hours may be taken subject to approval by your adviser.□□

–Pass a set of written and oral qualifying examinations testing competence in major and additional fields and your knowledge of the nature of history and the historian's task.□□

–A dissertation for which credit is given in [HIS 7980](#).□□

History/law joint degree program: The Department of History and the College of Law offer a program in legal history leading to either the M.A. or a Ph.D. degree in history and the J.D. in law. Because the faculties of history and law stress interdisciplinary training, students admitted to the joint degree program will be allowed to count a significant number of hours toward both degrees. Applicants must be accepted by both the Graduate School and the College of Law. Normally, students will complete the course and examination requirements of both degrees in 4 years. Students may begin their first year of work in either history or law, but they must complete the first year of law school within 1 year and they must do so within the first 2 years after admission to the joint degree program. □□For further information write to the Legal History Coordinator, Department of History, University of Florida, Box 117320, Gainesville, FL 32611-7320.□

Degrees

Doctor of Philosophy

without a concentration

concentration in Historic Preservation

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Historic Preservation

concentration in Jewish Studies

Courses

- AFH 5297: History of African Agriculture
- AFH 5348: History of West Africa
- AFH 5458: Southern Africa
- AFH 5934: Topics in African History
- AFH 6259: Seminar in Modern Africa
- AFH 6805: Theories and Methods of African History
- AFH 6934: Africa
- AFH 6936: Readings in African History
- AMH 5405: The South to 1860
- AMH 5905: Special Studies
- AMH 5930: Topics in United States History
- AMH 6198: Early American Society
- AMH 6199: Nineteenth Century America
- AMH 6290: Modern America
- AMH 6356: Research in U.S. History
- AMH 6406: Readings in Southern History, 1607-1865
- AMH 6465: Seminar in U.S. Urban History
- AMH 6506: Seminar in American Labor History
- AMH 6516: Seminar in American Foreign Relations and Expansion
- AMH 6557: Seminar in Constitutional or Legal History of the United States
- ASH 5388: Topics in East Asian History
- EUH 5546: Topics in British History
- EUH 5934: Topics in European History
- EUH 6126: Readings in Medieval History
- EUH 6174: Conversion in the Middle Ages
- EUH 6175: Ethnicity in the Middle Ages
- EUH 6176: Villages and Peasants in the Middle Ages
- EUH 6177: Economy and Society in Late Antiquity and the Early Middle Ages
- EUH 6213: Europe, 1500-1763
- EUH 6289: Readings, Modern Europe
- EUH 6469: Modern German History
- EUH 6935: Readings, Early Modern Europe
- EUH 6937: Readings in Mediterranean History
- HIS 5450: Slavery in the New World: Comparative Perspectives
- HIS 5484: Science and the Enlightenment
- HIS 5485: Special Studies in the History of Science
- HIS 6060: Historical Method
- HIS 6061: Introduction to Historiography
- HIS 6416: Problems in Comparative Legal History
- HIS 6445: Postcolonial Theories
- HIS 6469: Topics in Historiography of History of Science
- HIS 6478: Topics in the Scientific Revolution
- HIS 6480: Pre-Newtonian Sciences
- HIS 6488: Readings in the History of Science
- HIS 6905: Individual Study
- HIS 6910: Supervised Research
- HIS 6940: Supervised Teaching
- HIS 6943: Internship in College Teaching
- HIS 6957: Nonthesis Project in History
- HIS 6971: Research for Master's Thesis
- HIS 7979: Advanced Research
- HIS 7980: Research for Doctoral Dissertation
- LAH 5438: Modern Mexico
- LAH 5475: Caribbean, Nineteenth and Twentieth Centuries
- LAH 5476: Caribbean History to 1800: Slavery, Colonization, and International Conflict
- LAH 5527: Andean Nations
- LAH 5607: History of Amazonia
- LAH 5637: Brazil Since 1750
- LAH 5933: Topics in Caribbean History

- LAH 5934: Topics in Latin American History
- LAH 6934: Seminar in Colonial Spanish America
- LAH 6936: Seminar in History of Brazil
- LAH 6938: Seminar in Modern Spanish America
- EUH 5195: The Archaeology of the Middle Ages

Latin

College

[College of Liberal Arts and Sciences](#)

Department/School

[Classics Department](#)

Latin Program Information

(The following information refers only to our on-campus programs. Please visit the [Distance Learning Homepage](#) for further details on our Distance Learning MA and ML Programs, especially aimed at elementary, secondary, or community college teachers.)

The Department of Classics at the University of Florida offers an M.A. degree in Latin, an M.A.T. degree in Latin, as well as a Master of Latin degree. Students awarded a TA position receive a stipend plus a full tuition waiver. Students are expected to become Florida residents after one year.

The **Master of Arts in Latin** is a thesis degree designed specifically for students who are aiming toward a career in secondary teaching, but who still desire the writing experience and credential that a thesis provides.

The **Master of Arts in the Teaching of Latin (M.A.T.)** is recommended for students who wish to pursue a career in teaching and who want to include educational courses in their program. This is a non-thesis degree.

The **Master of Latin (M.L.) degree** is designed primarily for currently employed, and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of Classics, and enhance their professional qualifications. This is a non-thesis degree.

For minimum degree requirements, see the [Graduate Degrees](#) section of the catalog. For additional requirements, please see the department website: <http://classics.ufl.edu>.

Admission Requirements to the Latin Programs:

Admission into the university and the program for Classics is ultimately determined and granted according to the rules established by the Graduate School of the University of Florida (see the Graduate Catalog).

Submission of Graduate Record Examination (GRE) scores, with a minimum score of 1000 (combined verbal and quantitative). Competitive applicants for funding awards from the department typically have a combined score of at least 1200.

Master's level (Level I) requirements include:

1. Extensive study of Greek and Latin, with at least three years of coursework in one language and at least two years in the other language.
2. At least six hours in one or more of the following: ancient history, ancient art, archaeology, philosophy, literary criticism, linguistics.
3. A GPA of at least a 3.0.
4. Deficiencies that can be corrected within one year will not necessarily prevent admission, if the record shows promise on other grounds.

Degrees

Master of Arts

Master of Arts in Teaching

Master of Latin

Classics Departmental Courses

- CLA6125: Augustan Age
- CLA6515: Roman Dynasty: Nero and the Julio-Claudians
- CLA6795: Greek and Roman Archeology
- CLA6805: The Classical Research Tradition
- CLA6885: Roman Law and Society
- CLA6895: Athenian Law and Society
- CLA6905: Individual Work
- CLA6930: Greece and the Near East
- CLT 6295: Greek Drama in Translation
- GRE 6425: Greek Prose Composition
- GRE 6755: Epigraphy
- GRK 6905: Individual Work in Modern Greek
- GRW6105: The Greek Tradition
- GRW6216: Greek Novel
- GRW6316: Greek Tragedy
- GRW6317: Ancient Greek Comedy
- GRW6345: Greek Lyric Poetry
- GRW6346: Pindar
- GRW6347: Homer
- GRW6386: Greek Historians
- GRW6506: Plato
- GRW6705: Attic Orators
- GRW6905: Individual Work
- GRW6930: Special Topics in Greek Literature
- GRW6931: Comparative Study of Greek and Latin Literature
- GRW6971: Research for Master's Thesis
- GRW7979: Advanced Research
- GRW7980: Research for Doctoral Dissertation
- LAT 6425: Latin Prose Composition
- LNW5325: Roman Elegiac Poetry
- LNW5655: Roman Poets: Horace
- LNW5665: Roman Poets: Vergil
- LNW5675: Roman Poets: Ovid
- LNW5931: Comparative Study of Latin and Greek Literature
- LNW6105: The Roman Tradition
- LNW6225: The Ancient Roman Novel
- LNW6335: Roman Oratory and Rhetoric
- LNW6365: Studies in Roman Satire
- LNW6385: Roman Historians
- LNW6495: Late Latin Literature
- LNW6905: Individual Work
- LNW6933: Special Topics in Latin Literature
- LNW6935: Proseminar in Classics
- LNW6940: Supervised Teaching
- LNW6971: Research for Master's Thesis
- LNW7979: Advanced Research
- LNW7980: Research for Doctoral Dissertation

Latin American Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Latin American Studies Department](#)

Latin American Studies Program

The Center for Latin American Studies offers the following graduate programs:

- An interdisciplinary Master of Arts degree
- Graduate certificate and advanced graduate certificate in Latin American studies in conjunction with disciplinary degrees in the Colleges of Agricultural and Life Sciences; Design, Construction, and Planning; Business Administration; Education; Fine Arts; Journalism and Communications; Law; and Liberal Arts and Sciences.

The graduate program in Latin American studies relies on over 250 courses with Latin American content taught in more than 35 academic units of the above colleges. The degree and certificate

programs in Latin American studies are described on their website www.latam.ufl.edu/academics/graduate-programs. Complete course listings are available at the Center for Latin American Studies (319 Grinter Hall) and on the website.

Degrees

Master of Arts

without a concentration

concentration in Tropical Conservation and Development

Latin American Studies Courses

- FOT 6940: Translation Studies Practicum
- LAS 6008: Ecological Principles
- LAS 6220: Issues and Perspectives in Latin American Studies
- LAS 6290: Tropical Conservation and Development
- LAS 6291: Conservation and Development Skills
- LAS 6292: Tropical Conservation and Development Research Methods
- LAS 6293: Design and Methods of Research in Latin American Studies
- LAS 6295: Latin American Business Environment
- LAS 6296: Latin American Business Topics
- LAS 6905: Individual Work
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6940: Tropical Conservation and Development Practicum
- LAS 6943: Development Theory and Practice in Latin America
- LAS 6971: Research for Master's Thesis

Linguistics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Linguistics Department](#)

Linguistics Program Information

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

- The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
- Language documentation
- Sociolinguistics and language change
- Discourse analysis
- TESL
- Second language acquisition
- Psycholinguistics
- Neurolinguistics

For detailed information on the program, including financial aid, please visit the website <http://lin.ufl.edu>.

The Certificate in Second Language Acquisition and Teaching is offered to University of Florida graduate degree-seeking students in linguistics and related disciplines.

As part of its service to the University community, Linguistics also offers English as a Second Language training for international applicants and admitted students. These programs, the

English Language Institute (ELI), Academic Written English (AWE), and Academic Spoken English (ASE), are described in the [Student Services](#) section of this catalog. This information, along with links to the application form, are available at <http://lin.ufl.edu>.

Applicants who lack a background in linguistics should develop basic competency in the core areas before commencing graduate work. These deficiencies can be met by taking LIN 3010, LIN 3201, and LIN 3460 or the equivalent.

Degrees

Doctor of Philosophy

Master of Arts

Linguistics Departmental Courses

- EAP 5835: Academic Spoken English I
- EAP 5836: Academic Spoken English II
- EAP 5837: Academic Spoken English Tutorial
- EAP 5845: Academic Writing
- EAP 5846: Research and Technical Writing
- EAP 5937: Special Topics in Academic Spoken English
- LIN 5657: Gender and Language
- LIN 5741: Applied English Grammar
- LIN 6084: Introduction to Graduate Research
- LIN 6165: Field Methods
- LIN 6208: Phonetics for Linguists
- LIN 6226: Advanced Phonetics
- LIN 6323: Phonology
- LIN 6341: Issues in Phonology
- LIN 6402: Morphology
- LIN 6410: Issues in Morphology
- LIN 6501: Syntax
- LIN 6520: Issues in Syntax
- LIN 6571: Structure of Specific Language
- LIN 6601: Sociolinguistics
- LIN 6622: Bilingualism
- LIN 6707: Psycholinguistics
- LIN 6708C: Methods in Psycholinguistics
- LIN 6720: Second Language Acquisition
- LIN 6773: Topics in Computational Linguistics
- LIN 6796: Cognitive Neuroscience of Language
- LIN 6804: Semantics I
- LIN 6826: Introduction to Formal Pragmatics
- LIN 6856: Semantics II
- LIN 6905: Individual Study
- LIN 6910: Supervised Research
- LIN 6932: Special Topics
- LIN 6940: Supervised Teaching
- LIN 6971: Research for Master's Thesis
- LIN 7118: History of Linguistics
- LIN 7641: Seminar in Language Variation
- LIN 7725: Topics in Second Language Acquisition
- LIN 7885: Discourse Analysis and Pragmatics
- LIN 7979: Advanced Research
- LIN 7980: Research for Doctoral Dissertation
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes

Mathematics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Mathematics Department](#)

Degrees

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

concentration in Quantitative Finance

Master of Arts in Teaching

Master of Science

Master of Science in Teaching

Courses

- MAA 5104: Advanced Calculus for Engineers and Physical Scientists I
- MAA 5105: Advanced Calculus for Engineers and Physical Scientists II
- MAA 5228: Modern Analysis I
- MAA 5229: Modern Analysis II
- MAA 5404: Introduction to Complex Variables for Engineers and Physical Scientists
- MAA 6236: Mathematical Analysis for Statisticians
- MAA 6406: Complex Analysis I
- MAA 6407: Complex Analysis II
- MAA 6616: Analysis I
- MAA 6617: Analysis II
- MAA 7526: Advanced Topics in Functional Analysis I
- MAA 7527: Advanced Topics in Functional Analysis II
- MAD 6206: Combinatorial Theory I
- MAD 6207: Combinatorial Theory II
- MAD 6406: Numerical Linear Algebra
- MAD 6407: Numerical Analysis
- MAD 7396: Topics in Combinatorial Theory I
- MAD 7397: Topics in Combinatorial Theory II
- MAE 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAP 5304: Intermediate Differential Equations for Engineers and Physical Scientists
- MAP 5345: Introduction to Partial Differential Equations
- MAP 5489: Modeling in Mathematical Biology
- MAP 6208: Numerical Optimization
- MAP 6327: Applied Differential Equations I
- MAP 6356: Partial Differential Equations I
- MAP 6357: Partial Differential Equations II
- MAP 6375: Numerical Partial Differential Equations
- MAP 6376: Finite Element Method
- MAP 6467: Stochastic Differential Equations and Filtering Theory I
- MAP 6468: Stochastic Differential Equations and Filtering Theory II
- MAP 6472: Probability and Potential Theory I
- MAP 6473: Probability and Potential Theory II
- MAP 6487: Biomathematics Seminar I

- MAP 6488: Biomathematics Seminar II
- MAP 6505: Mathematical Methods of Physics and Engineering
- MAP 6506: Mathematical Methods of Physics and Engineering II
- MAP 6941: Internship in Applied Mathematics
- MAP 7436: Seminar in Applied Mathematics I
- MAP 7437: Seminar in Applied Mathematics II
- MAS 5311: Introductory Algebra I
- MAS 5312: Introductory Algebra II
- MAS 6331: Algebra I
- MAS 6332: Algebra II
- MAS 7215: Theory of Numbers I
- MAS 7216: Theory of Numbers II
- MAS 7396: Advanced Topics in Algebra I
- MAS 7397: Topics in Algebra II
- MAT 6905: Individual Work
- MAT 6910: Supervised Research
- MAT 6932: Special Topics in Mathematics
- MAT 6971: Research for Master's Thesis
- MAT 7979: Advanced Research
- MAT 7980: Research for Doctoral Dissertation
- MHF 5107: Introduction to Set Theory
- MHF 5207: Foundations of Mathematics
- MHF 6306: Mathematical Logic I
- MHF 6307: Mathematical Logic II
- MTG 5316: Introduction to Topology I
- MTG 5317: Introduction to Topology II
- MTG 5411: Introduction to Fractal Geometry
- MTG 5412: Introduction to Dynamical Systems and Chaos
- MTG 6256: Differential Geometry I
- MTG 6257: Differential Geometry II
- MTG 6346: Topology I
- MTG 6347: Topology II
- MTG 6401: Ergodic Theory and Dynamical Systems I
- MTG 6402: Ergodic Theory and Dynamical Systems II
- MTG 7396: Advanced Topics in Topology I
- MTG 7397: Advanced Topics in Topology II

Philosophy

College

[College of Liberal Arts and Sciences](#)

Department/School

[Philosophy Department](#)

Degrees

Doctor of Philosophy

Master of Arts

Master of Arts in Teaching

Courses

- PHH 5405: Modern Philosophy I
- PHH 5406: Modern Philosophy II
- PHH 5605: Studies in Continental Philosophy
- PHH 6105: Seminar in Ancient Philosophy
- PHH 6425: Seminar in Modern Philosophy
- PHI 5135: Graduate Logic
- PHI 5225: Philosophy of Language
- PHI 5325: Philosophy of Mind
- PHI 5365: Epistemology
- PHI 5405: Philosophy of Science
- PHI 5425: Philosophy of Social Science
- PHI 5505: Metaphysics
- PHI 5665: Ethical Theory
- PHI 5905: Individual Work
- PHI 5934: Topics in Philosophy
- PHI 5935: Proseminar
- PHI 6105: Seminar in Logic
- PHI 6226: Seminar in Philosophy of Language
- PHI 6306: Seminar in Epistemology
- PHI 6326: Seminar in Philosophy of Mind
- PHI 6406: Seminar in Philosophy of Science
- PHI 6506: Seminar in Metaphysics
- PHI 6667: Seminar in Ethics
- PHI 6787: Seminar in Continental Philosophy
- PHI 6905: Individual Work
- PHI 6910: Supervised Research
- PHI 6934: Special Topics
- PHI 6940: Supervised Teaching
- PHI 6971: Research for Master's Thesis
- PHI 7979: Advanced Research
- PHI 7980: Research for Doctoral Dissertation
- PHP 5005: Ancient Philosophy I
- PHP 5015: Ancient Philosophy II
- PHP 5785: Foundations of Analytic Philosophy
- PHP 6415: Seminar in Kant
- PHP 6795: Seminar in Analytic Philosophy
- PHP 6930: Seminar in a School or Thinker

Physics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Physics Department](#)

Physics Program Information

The Department of Physics is dedicated to advancing the forefronts of knowledge in both pure and applied physics, thus providing an exciting intellectual climate for our graduate students. Our research activities include astrophysics (particle astrophysics, cosmology and gravitation), condensed matter and materials physics (experimental, theoretical and computational), low temperature physics, elementary particle physics (experimental and theoretical) and biological physics. With such diversity in research offerings you will have an opportunity to pursue research in most areas of contemporary physics. In spite of the size of our Department, we are committed to designing a program of graduate study that is tailored to your experience and interests. Our Graduate Coordinator sees that each of our graduate students receives personal attention and advice as they progress toward their advanced degree.

Graduate Program Overview

Preliminary Examination:

- Covers undergraduate subject matter
- Given twice a year; two years to complete

Graduate Core Courses

- Two semesters of quantum mechanics
- Two semesters of electromagnetism
- One semester of classical mechanics
- One semester of statistical mechanics
- Waivers given for equivalent
- work at other institutions
- Completed in first or second years

Distribution Requirement

- Advanced course work in three subfields
- Usually completed by the end of the second year

Highlights

- Involvement in research in first summer (or sooner)!
- Diversity of research interdisciplinary options!
- Individualized program designed to meet the unique background of each student!

For more information, please see our website: <http://www.physics.ufl.edu>.

Degrees

Doctor of Philosophy

without a concentration

concentration in Imaging Science and Technology

Master of Science

Master of Science in Teaching

Courses

- AST 6416: Physical Cosmology
- PHY 5277: Physics of Accident Reconstruction and Biomechanics
- PHY 5905: Individual Work
- PHY 6246: Classical Mechanics
- PHY 6346: Electromagnetic Theory I
- PHY 6347: Electromagnetic Theory II
- PHY 6536: Statistical Mechanics I
- PHY 6555C: Cryogenics
- PHY 6645: Quantum Mechanics I
- PHY 6646: Quantum Mechanics II
- PHY 6648: Quantum Field Theory I
- PHY 6905: Individual Work
- PHY 6910: Supervised Research
- PHY 6920: Departmental Colloquium
- PHY 6932: Seminar in Molecular and Computational Physics
- PHY 6943: Internship in College Teaching
- PHY 6971: Research for Master's Thesis
- PHY 7097: Advanced Topics in Theoretical Physics
- PHY 7669: Quantum Field Theory II
- PHY 7939: Special Topics
- PHY 7979: Advanced Research
- PHY 7980: Research for Doctoral Dissertation
- PHZ 5155C: Physical Modeling and Simulation
- PHZ 5245: Introduction to Magnetic Resonance
- PHZ 5354: Introduction to Particle Physics
- PHZ 5405: Introduction to Solid-State Physics
- PHZ 6156: Computer Methods in Physics
- PHZ 6166: Qualitative Methods of Theoretical Physics
- PHZ 6355: Elementary Particle Physics I
- PHZ 6358: Standard Model of Elementary Particles I
- PHZ 6391: Seminar in Astrophysics

- PHZ 6392: Seminar in Particle Physics
- PHZ 6426: Solid State I
- PHZ 6493: Seminar in Condensed Matter Physics
- PHZ 6607: Special and General Relativity
- PHZ 7357: Elementary Particle Physics II
- PHZ 7359: Standard Model of Elementary Particles II
- PHZ 7427: Solid State II
- PHZ 7428: Modern Condensed Matter Physics
- PHZ 7429: Phases of Condensed Matter
- PHZ 7608: Special and General Relativity II

Plant Molecular and Cellular Biology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Plant Molecular and Cellular Biology Department](#)

Plant Molecular and Cellular Biology Program Information

Director: Gloria A. Moore

Graduate Coordinator: Matias Kirst

Plant Molecular and Cellular Biology (PCMB) is an interdisciplinary and interdepartmental graduate degree program that emphasizes understanding the molecular and cellular mechanisms that mediate plant development, adaptation, and evolution. Students can pursue an M.S. or a Ph.D. degree through the PCMB program. All students complete core courses in Advanced Genetics, Plant Molecular Biology and Genomics, Plant Cellular and Developmental Biology, and Plant Biochemistry. In addition to the core classes, students can select from a variety of courses in biochemistry, molecular biology, physiology, breeding, genetics, evolution, microbiology, and plant pathology.

New students are exposed to a variety of faculty and experimental systems while they rotate through several laboratories during their first two semesters before selecting an adviser and dissertation research area. Both M.S. and Ph.D. students take four required courses: [PCB 5065](#) Advanced Genetics, [PCB 5530](#) Plant Molecular Biology and Genomics, [PCB 6528](#) Plant Cell and Developmental Biology and [BOT 6935](#) Plant Biochemistry, as well as journal colloquium classes ([PCB 7922](#) Journal Colloquium). Additional elective courses are taken after approval by the student's supervisory committee. For additional information see <http://pmcb.ifas.ufl.edu>.

Successful candidates should have a strong interest in plant molecular and cellular mechanisms controlling development, metabolism, adaptation, and evolution. Applicants typically have a B.S. or M.S. in the agricultural, forestry, biological or chemical sciences with advanced undergraduate coursework in genetics, molecular and cellular biology, and biochemistry. However, outstanding students from a broad range of science disciplines are actively considered.

Degrees

Doctor of Philosophy

without a concentration

concentration in Toxicology

Master of Science

Plant Molecular and Cellular Biology Courses

- BOT 6935: Special Topics
- PCB 5065: Advanced Genetics
- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 6910: Supervised Research
- PCB 6937: Special Topics in Plant Molecular and Cellular Biology
- PCB 6971: Research for Master's Thesis
- PCB 7922: Journal Colloquy in Plant Molecular and Cellular Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation

Political Science

College

[College of Liberal Arts and Sciences](#)

Department/School

[Political Science Department](#)

Political Science Program Information

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information about international relations, please contact the [Political Science Department](#) or visit [their departmental page in this catalog](#).

Admission to graduate study in the Department of Political Science normally requires the completion of an undergraduate major in political science or its equivalent. Students without this preparation may be required to make up deficiencies early in their graduate work. The core sequence begins in the fall term, providing basic knowledge that students need in later semesters. In evaluating candidates for admission, the Department considers

- Prior academic achievement
- GRE scores
- Letters of recommendation from three faculty members or others familiar with the academic potential or work habits of the applicant
- A statement of purpose that conveys intellectual ambitions, indicates how the program of study satisfies the student's interests and goals, and tells how the student would contribute to the program.

Fields of specialization offered by the Department include American government and politics, comparative politics, international relations, public policy, political theory, political behavior, and political methodology.

Master of Arts: The M.A. curricula are designed to serve students who want to pursue goals of an advanced general education, to gain skills and knowledge suitable for various types of public or private employment, or to prepare for further work at the doctoral level. M.A. students are required to complete [POS 6736: The Conduct of Inquiry](#), and either [POS 6737: Political Data Analysis](#) or [STA 6126: Statistical Methods in Social Research I](#). Students may complete their M.A. degrees with or without writing a thesis. Students pursuing the thesis option must complete 30 hours of graduate course work. The thesis is expected to be of length and quality comparable to papers presented at professional academic conferences or published in academic journals. Students pursuing the nonthesis option must complete 36 semester hours of graduate course work and defend two qualifying papers. For both M.A. options, course work in political science, exclusive of core courses, must include a minimum of two graduate-level courses in one field of political science.

The M.A. degree may be taken in conjunction with the following certificate programs:

- Political campaigning
- Public affairs

Students in these certificate programs pursue the nonthesis option.

Public affairs: This program trains students for leadership positions in state, local, and national governments as well as for careers in nonprofit organizations by providing students with knowledge and skills in the areas of organization behavior, public budgeting and finances, public management, policy analysis, program evaluation, and computer applications. The curriculum consists of seminars in political science, public administration, public policy, process, state and local politics, and research methods. Supervised internships in selected agencies in Florida are arranged by the Department of Political Science as an integral part of the training program. This specialization requires 39 hours of course work plus satisfactory completion of a 3-hour internship at the discretion of the Department. Students must also defend a final management-policy paper that incorporates analytical and substantive expertise. Graduates of the program serve in a variety of professional positions, including city managers, heads of municipal departments, directors of nonprofit organizations, analysts for the state legislature, and budget analysts for the federal government. In addition to the M.A. degree in political science, students receive the Certificate in Public Affairs.

Political campaigning: The program is designed to provide students with the basic political skills, insights, and experience that are critical for success in the rapidly changing profession of politics and political consulting. The program combines an awareness of the academic literature on mass and elite behavior with exposure to the increasingly sophisticated techniques used by campaigns. Students take a total of 39 hours from four major areas:

- Courses required of all M.A. students
- Courses oriented to practical aspects of political campaigning and governmental affairs (lobbying), including a 3-credit campaign-related internship
- Courses placing campaigns and elections in the broader context of American politics
- Related courses offered by the College of Journalism and Communications

Entry-level jobs have included such positions as legislative aide, campaign (or deputy campaign) manager, polling analyst, state party political coordinator, general campaign consultant, and media relations. With additional experience, some former students have gone on to become state legislator (and later, member of the U.S. House of Representatives), deputy chief of staff to the governor of Florida, partner in a major Washington area polling firm, assistant to the Minister of Justice and Attorney General of Canada, and head lobbyist for a nationwide restaurant chain.

In addition to the M.A. degree in political science, students receive the Certificate in Political Campaigning.

Law/Public Affairs joint degree program: This program culminates in the Master of Arts in political science and Juris Doctor degrees. A joint degree program culminating in the Master of Arts in political science international relations and Juris Doctor degrees is also available. The joint program enables students to earn both the J.D. and the M.A. in less time than would be required to earn both degrees consecutively. Full-time students who make satisfactory progress can usually earn both degrees in 4 years. Candidates for the joint degree program must meet the entrance requirements for, and be admitted to, both the College of Law and the Department of Political Science. These requirements include both the LSAT and the GRE. Students are encouraged to announce their intent of seeking a joint degree as soon as possible. The Department of Political Science will allow 12 hours of appropriate law school courses to be credited toward the M.A. degree. The 12 credits selected from the law curriculum must be approved by the Political Science graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in political science graduate courses to be credited toward the J.D. degree. Students in the joint degree program are permitted, but not required, to pursue a companion certificate program in public affairs, political campaigning, or international development policy and administration.

Combined bachelor's/master's degree program: This combined program is designed for superior students who have the ability to pursue an accelerated program leading to the Bachelor of Arts and the Master of Arts degrees in political science or political science international relations.

Up to 12 semester hours of approved graduate-level political science courses may be used as credit for both the undergraduate and graduate degree. Applicants to the program must present

- Acceptable scores on the verbal, quantitative, and analytical writing portions of the GRE
- Completion of at least 24 semester hours at the University of Florida (including at least 12 semester hours of political science) with a GPA of 3.7 or higher
- Letters of recommendation from two faculty members in the Department of Political Science

The combined program is not recommended for students considering a Ph.D. program in political science at UF but is appropriate for those considering one of the M.A. degree plus certificate programs described above. Further information concerning this program is available from the departmental undergraduate and graduate coordinators.

Doctor of Philosophy: The Ph.D. program emphasizes preparation for academic careers through seminars, independent work with faculty, and professional development experiences including graduate paper readings, placement workshops, and a distinguished lecture series. The Ph.D. prepares students for teaching and research in either an academic or governmental environment and opens doors to other career opportunities in both the private and public sectors. The Ph.D. program emphasizes the development of strong analytic skills and sophisticated research methods. As resources permit, the Department provides students with funding for travel expenses to scholarly meetings and professional (methodological) training support. As part of the preparation for careers in academia, doctoral students are also generally expected to contribute to the teaching mission of the Department. All Ph.D. students must complete the following

- [POS 6736: The Conduct of Inquiry](#)
- [POS 6716: Scope and Epistemologies of Political Science](#)
- [POS 6737: Political Data Analysis](#)
- [POT 6505: Politics and Theory](#)
- Course work in a major and two minor fields of study
- Qualifying examinations in a major field and one minor field
- A dissertation

Fields of study open to Ph.D. students include comparative politics, American politics, public policy, international relations, political behavior, political theory, and political methodology. Applications are particularly welcome from students whose intellectual interests traverse these fields, including those with interests in religion and politics, state political institutions and policy, environmental politics, international development, and minority and ethnic politics.

University of Florida Ph.D. students benefit from associations with faculty in numerous other departments and centers. The Centers for Latin American Studies, African Studies, and European Studies, and the Asian Studies Program complement department faculty strengths in comparative politics and international relations. Students in the public policy concentration benefit from substantive expertise of faculty in the Institute for Child Health Policy, the Shingler Center for Affordable Housing, and the Center for Gerontological Studies. Several faculty in the College of Journalism and Communications have interests in media and politics.

For more information, please see our website: <http://polisci.ufl.edu>.

Degrees Offered with a Major in Political Science

Doctor of Philosophy

without a concentration

concentration in Educational Policy

concentration in Tropical Conservation and Development

Master of Arts

without a concentration

concentration in International Development Policy and Administration

concentration in Public Affairs

concentration in Political Campaigning

concentration in Tropical Conservation and Development

Political Science Departmental Courses

- CPO 5935: Advanced Topics in Comparative Politics
- CPO 6046: Politics in Advanced Industrial Societies
- CPO 6059: Democracy and Its Competitors
- CPO 6077: Social Movements in Comparative Perspective
- CPO 6091: Introduction to Comparative Political Analysis
- CPO 6206: Seminar in African Politics
- CPO 6307: Latin American Politics I
- CPO 6732: Democratization and Regime Transition
- CPO 6736: Post-Communist politics
- CPO 6756: Comparative Elections and Party Systems
- CPO 6757: The European Union In Comparative Perspective
- CPO 6786: Peasant Politics and Society
- CPO 6795: Environmental Politics
- CPO 6796: Water Politics
- INR 5935: Advanced Topics in International Relations
- INR 6036: Globalization, Regionalism, and Governance
- INR 6039: International Political Economy
- INR 6208: Advanced International Relations Theory
- INR 6213: Seminar: Politics of the European Union
- INR 6249: Inter-American Relations
- INR 6305: Politics of American Foreign Policy Making
- INR 6337: Survey of International Security
- INR 6352: International Environmental Relations
- INR 6507: International Organization
- INR 6607: International Relations Theory
- INR 6936: Seminar in Transnational and Global Studies
- INR 6938: Seminar in Culture and World Politics
- PAD 5935: Advanced Topics in Public Administration
- PAD 6108: Public Administration Theory
- PAD 6227: Public Budgeting and Finance
- PAD 6434: Leadership and Ethics in Public Agencies
- POS 6458: Politics of Campaign Finance
- PAD 6946: Internship in Government
- POS 5935: Advanced Topics in Political Science
- POS 6045: Seminar in American Politics
- POS 6048: American Political Development
- POS 6127: State Government and Politics
- POS 6146: Urban Politics
- POS 6157: Community Analysis
- POS 6196: Patrons, Clients, Corruption, and Accountability
- POS 6207: Political Behavior
- POS 6208: Empirical Political Research
- POS 6272: Political Participation
- POS 6274: Political Campaigning
- POS 6278: Advanced Campaign Strategy
- POS 6279: The Politics of Direct Democracy
- POS 6292: Religion and Politics
- POS 6427: Legislative Process
- POS 6453: Political Parties and Interest Groups
- POS 6476: Bureaucratic Politics in the U.S.
- POS 6707: Qualitative Research Methods for Political Science
- POS 6712: Empirical Theories of Politics
- POS 6716: Scope and Epistemologies of Political Science
- POS 6736: The Conduct of Inquiry
- POS 6737: Political Data Analysis
- POS 6747: Topics in Political Research Methodology
- POS 6757: Survey Research
- POS 6909: Individual Work
- POS 6910: Supervised Research
- POS 6933: Special Topics
- POS 6940: Supervised Teaching
- POS 6971: Research for Master's Thesis
- POS 7979: Advanced Research

- POS 7980: Research for Doctoral Dissertation
- POT 5935: Advanced Topics in Political Theory
- POT 6016: Ancient Political Thought
- POT 6056: Modern Political Thought
- POT 6067: Contemporary Political Theory
- POT 6306: Liberalism and Its Critics
- POT 6314: Democratic Theory
- POT 6416: The Marxist Tradition and its Critics
- POT 6505: Politics and Theory
- POT 6516: Political Judgment
- PUP 5935: Advanced Topics in Public Policy
- PUP 6006: Policy Evaluation
- PUP 6007: Policy Process
- PUP 6009: Public Policy Analysis
- PUP 6315: Race, Gender, and Politics

Political Science - International Relations

College

[College of Liberal Arts and Sciences](#)

Department/School

[Political Science Department](#)

Political Science--International Relations Program Information

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the [Graduate Degrees Section](#) of this catalog. For further information, please contact the [Political Science Department](#) directly or visit [their departmental catalog page](#).

Admission to graduate study in the Department of Political Science normally requires the completion of an undergraduate major in political science or its equivalent. Students without this preparation may be required to make up deficiencies early in their graduate work. The core sequence begins in the fall term, providing basic knowledge that students need in later semesters. In evaluating candidates for admission, the Department considers

- Prior academic achievement
- GRE scores
- Letters of recommendation from three faculty members or others familiar with the academic potential or work habits of the applicant
- A statement of purpose that conveys intellectual ambitions, indicates how the program of study satisfies the student's interests and goals, and tells how the student would contribute to the program.

Political science--international relations: The M.A. degree in political science-- international relations is designed to provide professional education to those whose primary interest is a career in foreign relations. In this program, students must complete course work in the core of international relations theory and in two or more of the four major subfields of international relations, international political economy, international security, foreign policy, and international organization. The M.A. is a 36-hour degree, requiring successful completion of a 6-credit political science core sequence, 15 credits of departmental or extra-department electives, and a 15- credit international relations major. Students may pursue either a thesis option or take a comprehensive examination at the end of the program.

Law/Public Affairs joint degree program: This program culminates in the Master of Arts in political science and Juris Doctor degrees. A joint degree program culminating in the Master of Arts in political science international relations and Juris Doctor degrees is also available. The joint program enables students to earn both the J.D. and the M.A. in less time than would be required to earn both degrees consecutively. Full-time students who make satisfactory progress can usually earn both degrees in 4 years. Candidates for the joint degree program must meet the entrance requirements for, and be admitted to, both the College of Law and the Department of Political Science. These requirements include both the LSAT and the GRE. Students are encouraged to announce their intent of seeking a joint degree as soon as possible. The Department of Political Science will allow 12 hours of appropriate law school courses to be credited toward the M.A. degree. The 12 credits selected from the law curriculum must be approved by the Political Science graduate coordinator on the recommendation of the student's supervisory committee. The College of Law will permit 12 hours of credit earned in political science graduate courses to be credited toward the J.D. degree. Students in the joint degree program are permitted, but not required, to pursue a companion certificate program in public affairs, political campaigning, or international development policy and administration.

Combined bachelor's/master's degree program: This combined program is designed for superior students who have the ability to pursue an accelerated program leading to the Bachelor of Arts and the Master of Arts degrees in political science or political science international relations.

Up to 12 semester hours of approved graduate-level political science courses may be used as credit for both the undergraduate and graduate degree. Applicants to the program must present

- Acceptable scores on the verbal, quantitative, and analytical writing portions of the GRE
- Completion of at least 24 semester hours at the University of Florida (including at least 12 semester hours of political science) with a GPA of 3.7 or higher
- Letters of recommendation from two faculty members in the Department of Political Science

The combined program is not recommended for students considering a Ph.D. program in political science at UF but is appropriate for those considering one of the M.A. degree plus certificate programs described above. Further information concerning this program is available from the departmental undergraduate and graduate coordinators.

Degrees

Master of Arts

Master of Arts in Teaching

Political Science Departmental Courses

- CPO 5935: Advanced Topics in Comparative Politics
- CPO 6046: Politics in Advanced Industrial Societies
- CPO 6059: Democracy and Its Competitors
- CPO 6077: Social Movements in Comparative Perspective
- CPO 6091: Introduction to Comparative Political Analysis
- CPO 6206: Seminar in African Politics
- CPO 6307: Latin American Politics I
- CPO 6732: Democratization and Regime Transition
- CPO 6736: Post-Communist politics
- CPO 6756: Comparative Elections and Party Systems
- CPO 6757: The European Union In Comparative Perspective
- CPO 6786: Peasant Politics and Society
- CPO 6795: Environmental Politics
- CPO 6796: Water Politics
- INR 5935: Advanced Topics in International Relations
- INR 6036: Globalization, Regionalism, and Governance
- INR 6039: International Political Economy
- INR 6208: Advanced International Relations Theory
- INR 6213: Seminar: Politics of the European Union
- INR 6249: Inter-American Relations
- INR 6305: Politics of American Foreign Policy Making
- INR 6337: Survey of International Security
- INR 6352: International Environmental Relations
- INR 6507: International Organization
- INR 6607: International Relations Theory
- INR 6936: Seminar in Transnational and Global Studies
- INR 6938: Seminar in Culture and World Politics
- PAD 5935: Advanced Topics in Public Administration
- PAD 6108: Public Administration Theory
- PAD 6227: Public Budgeting and Finance
- PAD 6434: Leadership and Ethics in Public Agencies
- POS 6458: Politics of Campaign Finance
- PAD 6946: Internship in Government
- POS 5935: Advanced Topics in Political Science
- POS 6045: Seminar in American Politics
- POS 6048: American Political Development
- POS 6127: State Government and Politics
- POS 6146: Urban Politics
- POS 6157: Community Analysis
- POS 6196: Patrons, Clients, Corruption, and Accountability
- POS 6207: Political Behavior
- POS 6208: Empirical Political Research
- POS 6272: Political Participation
- POS 6274: Political Campaigning
- POS 6278: Advanced Campaign Strategy
- POS 6279: The Politics of Direct Democracy
- POS 6292: Religion and Politics
- POS 6427: Legislative Process
- POS 6453: Political Parties and Interest Groups
- POS 6476: Bureaucratic Politics in the U.S.
- POS 6707: Qualitative Research Methods for Political Science
- POS 6712: Empirical Theories of Politics
- POS 6716: Scope and Epistemologies of Political Science
- POS 6736: The Conduct of Inquiry
- POS 6737: Political Data Analysis
- POS 6747: Topics in Political Research Methodology
- POS 6757: Survey Research
- POS 6909: Individual Work
- POS 6910: Supervised Research
- POS 6933: Special Topics
- POS 6940: Supervised Teaching
- POS 6971: Research for Master's Thesis
- POS 7979: Advanced Research
- POS 7980: Research for Doctoral Dissertation
- POT 5935: Advanced Topics in Political Theory
- POT 6016: Ancient Political Thought
- POT 6056: Modern Political Thought

- POT 6067: Contemporary Political Theory
- POT 6306: Liberalism and Its Critics
- POT 6314: Democratic Theory
- POT 6416: The Marxist Tradition and its Critics
- POT 6505: Politics and Theory
- POT 6516: Political Judgment
- PUP 5935: Advanced Topics in Public Policy
- PUP 6006: Policy Evaluation
- PUP 6007: Policy Process
- PUP 6009: Public Policy Analysis
- PUP 6315: Race, Gender, and Politics

Psychology (Psychology - CLAS)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Psychology Department](#)

Psychology Program Information

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the [Graduate Degrees](#) section of this catalog. Students are not accepted for a terminal master's degree.

Doctoral areas of specialization include the research areas of developmental, behavior analysis, behavioral and cognitive neuroscience, social psychology, and counseling psychology. The training program in counseling psychology is accredited by the American Psychological Association. A predoctoral internship of one year is required for the counseling psychology program.

Undergraduate preparation should include at least one course in experimental methods and one course in statistics. Other courses in psychology should include at least three or four of the following: cognition, developmental, learning, personality, physiological, sensory, and social. Applicants should have competitive GRE scores and GPA (3.5 or higher).

Co-major: The Department offers a co-major program in conjunction with the College of Education leading to the Doctor of Philosophy degree in psychology and research and evaluation methodology.

Degrees

Doctor of Philosophy

without a concentration

concentration in Women's/Gender Studies

Master of Arts

Master of Science

without a concentration

Psychology Departmental Courses

- CBH 6056: Comparative Psychology
- CLP 6169: Seminar: Psychology and Deviant Behavior
- CLP 7525: Best Methods for Studying Psychological Change
- DEP 6057: Advanced Developmental Psychology I
- DEP 6058: Advanced Developmental Psychology II
- DEP 6059: Seminar: Special Topics in Developmental Psychology
- DEP 6099: Survey of Developmental Psychology
- DEP 6216: Psychological Disturbances of Children
- DEP 6406: Advanced Adulthood and Aging
- DEP 6409: Seminar: Adult Development and Aging
- DEP 6799: Current Research Methods in Developmental Psychology
- DEP 6936: Current Research in Developmental Psychology
- DEP 7608: Theories of Developmental Psychology
- EAB 5436: Behavioral Pharmacology
- EAB 6099: Survey of Behavior Analysis
- EAB 6118: Theoretical Foundations of Behavior Analysis
- EAB 6707: Applied Behavior I
- EAB 6712: Experimental Psychopathology
- EAB 6716: Behavior Analysis in Developmental Disabilities
- EAB 6719: Seminar: Strategies and Tactics of Human Behavioral Research
- EAB 6750: Quantitative Methods
- EAB 6780: Ethics and Professional Issues
- EAB 6937C: Seminar: Special Topics in Experimental Analysis of Behavior
- EAB 6939: Seminar: Special Topics in Applied Behavior Analysis
- EAB 7089: Advanced Seminar: Experimental Analysis of Behavior
- EAB 7090: Verbal Behavior
- EXP 6099: Survey of Cognition and Sensory Processes
- EXP 6609: Seminar: Cognition
- EXP 6939: Seminar: Current Issues in Cognition and Sensory Processes
- GEY 7408: Psychotherapy with Older Adults
- MHS 6430: Introduction to Family Counseling
- MHS 6440: Marriage Counseling
- MHS 7431: Advanced Family Counseling
- PCO 6057: Psychology of Counseling I
- PCO 6058: Psychology of Counseling II
- PCO 6059: Psychology of Counseling III
- PCO 6278: Diversity and Multiculturalism in Counseling Psychology
- PCO 6316C: Psychological Assessment I
- PCO 6317C: Psychological Assessment II
- PCO 6931: History and Contemporary Issues in Counseling Psychology
- PCO 6939: Seminar: Current Topics in Counseling Psychology
- PCO 7217: Professional Ethics and Skills in Counseling Psychology
- PCO 7247: Group Counseling/Psychology
- PCO 7537: Vocational Psychology
- PCO 7944: Practicum in Counseling Psychology
- PCO 7945: Advanced Practicum in Counseling Psychology
- PCO 7949: Internship in Counseling Psychology
- PPE 6059: Seminar in Personality
- PSB 5445: Drug Use and Abuse
- PSB 5935: Seminar in Physiological Psychology
- PSB 6082: Neuroethology
- PSB 6087: Advanced Physiological Psychology
- PSB 6088L: Behavioral Neurobiology
- PSB 6099: Survey of Physiological and Comparative Psychology
- PSB 7248: Neurobehavioral Relations
- PSB 7249: Seminar in Neural Mechanisms and Behavior
- PSY 6608: History of Psychology
- PSY 6905: Individual Work
- PSY 6910: Supervised Research
- PSY 6930: Topics in Psychology
- PSY 6939: Seminar: The Teaching of Psychology
- PSY 6940: Supervised Teaching
- PSY 6971: Research for Master's Thesis
- PSY 7979: Advanced Research
- PSY 7980: Research for Doctoral Dissertation
- SOP 6099: Survey of Social Psychology
- SOP 6219C: Advanced Research Techniques in Social-Personality Psychology
- SOP 6409: Seminar: Current Topics in Social-Personality Psychology
- SOP 6419: Seminar: Attitudes and Social Cognition
- SOP 6509: Seminar: Interpersonal Relations and Group Processes
- SOP 6929: Colloquium on Research in Social-Personality Psychology

Religion

College

[College of Liberal Arts and Sciences](#)

Department/School

[Religion Department](#)

Religion Program

The Department of Religion offers the Master of Arts and Doctor of Philosophy degrees in three specialty fields:

- Religion in the Americas
- Religions of Asia
- Religion and nature.

Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog.

The first two specialty fields provide advanced education in the academic study of religion focusing on the religions and religious experiences of indigenous peoples. The third specialty field addresses the religious and ethical dimensions of human attitudes and practices regarding the natural world. Specific and current requirements are given at <http://www.religion.ufl.edu> under "Graduate Program." In special instances, and with the agreement of the supervisory committee and two sponsoring faculty members, master's degree students may choose an area outside the three specialty fields.

In addition to materials requested by the Graduate School for admission, applicants must send directly to the Religion Department the following evidence of aptitude and interest

- Three references from persons competent to evaluate the applicant's potential for graduate work
- An essay of 3 to 5 double-spaced, typewritten pages identifying the applicant's goals and particular interests pertinent to the three available specialty fields (this essay is extremely important and applicants should attend to it carefully)
- A writing sample.

Beyond these requirements, applicants need to show clear evidence of solid preparation before admission. This usually includes formal study of the primary language in the specialty field. Acceptable scores on the GRE General Test are required. In addition to evidence of preparation and academic promise, the Department gives careful consideration to the fit between an applicant's central scholarly interests and the resources the Department and University have to offer.

Master of Arts: The M.A. degree provides a broad background in the study of religious traditions, theoretical orientations in the discipline, and an initial concentration in one of the three specialty fields. Course work culminates in a thesis and oral examination on the thesis and course work.

Total credits: Thirty credit hours are required. These include Method and Theory I and II, the core course(s) of the major field (or equivalent for those not in one of the three specialty fields), and 6 hours of thesis research credits. The additional hours shall consist of further courses in the specialty field, other graduate seminars, and up to 6 hours of research language study.

Language study: All M.A. students are required to demonstrate competency in a scholarly language other than English before beginning the thesis. Most languages are acceptable, though students should consult the individual field requirements. The chosen language must be approved by the student's mentor and the graduate coordinator.

Thesis: Each student, guided by a supervisory committee, will prepare a Master of Arts thesis, acceptable to the Department of Religion and the Graduate School, and undergo an oral examination.

Promotion to doctoral status: The Department anticipates admitting only the best qualified M.A. students to the doctoral program. Resident graduate students who wish to apply for doctoral status (i.e., permission to fulfill requirements leading to doctoral qualifying examinations) must apply during the semester before they wish that status to be changed. A review and decision will be made by the field faculty and the graduate committee.

Doctor of Philosophy: The Ph.D. program trains future scholars to conduct original research and teach in colleges, universities, and other educational, governmental, and nongovernmental institutions. A student usually enters with a religion master's degree either from this or another institution. Those admitted with master's degrees in disciplines other than religion may petition to bypass the religion master's degree with additional religion course work. All students are admitted into one of the three specialty fields and must fulfill the requirements of that field, as outlined. In addition, all students are encouraged to take courses in other departments to support work in their specialty field.

Course requirements: The University of Florida requires 90 hours of course work for the Ph.D. These may include up to 30 hours from a completed M.A. degree. The number of hours credited toward the Ph.D. is at the discretion of department faculty. A minimum of 45 hours is devoted to course work at the doctoral level. The specific distribution of course work depends on the specialization but will include intensive work in the major area of specialization, 6 hours of method and theory (If not taken at the M.A. level) and 12 hours devoted to dissertation writing and research.

Language requirements: All doctoral students must demonstrate proficiency in at least one and in many cases two languages other than English. The chosen language(s) as well as how and when the student's competence will be judged must be approved by the student's supervisory committee chair. Frequently language competence is documented by 1) taking an appropriate course or courses in the language with a grade of "B" or better, or 2) passing a translation exam (usually administered by a department member or a language department at the University). Basic course work for scholarly languages will not count toward the required 90 credit hours. However, students studying a scholarly language connected to their research needs (above and beyond basic competence) can receive 6 (or more) credit hours for such advanced courses toward the required 90 total credit hours, with approval of the student's supervisory committee chair.

Qualifying examinations: Qualifying examinations form a bridge between course work and dissertation research. Normally students will take qualifying examinations during their third year in residence. The precise areas of questioning and the reading list are decided by the supervisory committee in consultation with the student, well in advance of the examinations, but no later than the beginning of the term in which the student intends to take the qualifying examinations.

Dissertation proposal: Each doctoral candidate submits a formal dissertation proposal to the candidate's supervisory committee chair at least 3 weeks before the end of the semester after the qualifying examination.

Admission to candidacy: On successfully completing the qualifying examination and the dissertation proposal, and all other course and language requirements, and with the approval of the supervisory committee, students make formal application to the Department and Graduate School for admission to Ph.D. candidacy.

Dissertation and its defense: The final years of the program are devoted to dissertation research and writing. The student is expected to present the completed dissertation and defend it at a public oral defense conducted by the supervisory committee.

Mentoring: Each student is assigned a faculty mentor on admission to the program, based on expressions of faculty interest and the student's intended area of concentration. The mentor and graduate coordinator answer questions and provide support for the student in choosing courses and planning a program. By the end of the second semester, all master's degree students must designate their supervisory committee chair and one additional department committee member. By the end of the second semester, all doctoral students must designate their committee chair. By no later than the end of the fourth semester of study, all doctoral students must designate a four-member supervisory committee including the chair and one member from outside the department. For details about the programs listed above, visit <http://www.religion.ufl.edu>.

Degrees Offered with a Major in Religion

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Jewish Studies

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Courses

- REL 5***
- RLG 5143: Religion and Social Change

- REL 5187
- RLG 5195: Topics in Religion and Society
 - REL 5199
- RLG 5297: Topics in Biblical Studies
- RLG 5338: Topics in Asian Religions
- RLG 5365: Studies in Islam
- RLG 5396: Religion and Animals
- RLG 5495: Topics in Religious Thought
- RLG 5549: Studies in Christianity
- RLG 5696: Topics in Jewish Thought
- RLG 5906: Individual Work
- RLG 5937: Topics in Religious Studies
 - REL 5xxxA
 - REL 5xxxB
 - REL 5xxxC
 - REL 6***
- RLG 6035: Method and Theory I
- RLG 6036: Method and Theory II
- RLG 6095: Utopias and Dystopias
- RLG 6107: Core Seminar in Religion and Nature
- RLG 6125: Religion and Politics in the Americas
- RLG 6129: Hindu Traditions in America
- RLG 6137: Religion in North America
- RLG 6138: New Religious Movements
- RLG 6126: Religion in the Americas
- RLG 6167: Radical Environmentalism
- RLG 6181: Ethics and the Natural Sciences
- RLG 6183: Religion and Environmental Ethics
- RLG 6187: Nature in Asian Religions
- RLG 6196: Globalizing the Sacred
- RLG 6319: Interpreting Asian Religions
- RLG 6339: Women in the Hindu Tradition
- RLG 6346: Buddhist Traditions
- REL 6347: American Buddhism
- REL 6368: Islam in Asia
- RLG 6310: Religion and Nature in South Asia
- RLG 6385: Native Religions in the Americas
- RLG 6387: Religions in Latin America
- REL 6397: Hindu Sacred Texts and Their Ritual Context
- RLG 6910: Supervised Research
- RLG 6940: Supervised Teaching
- RLG 6957: Overseas Studies in Religion
- RLG 6971: Research for Master's Thesis
 - REL 6xxxA
 - REL 6xxxB
- RLG 7979: Advanced Research
- RLG 7980: Research for Doctoral Dissertation
- SRK 6905: Individual Study in Sanskrit

Romance Languages (Language, Literature and Culture)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Department of Languages, Literatures and Cultures](#)

Degrees Offered with a Major in Romance Languages

Doctor of Philosophy

concentration in French and Francophone Studies

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Romance Languages (Spanish and Portuguese Studies)

College

[College of Liberal Arts and Sciences](#)

Department/School

[Spanish and Portuguese Studies Department](#)

Degrees Offered with a Major in Romance Languages

Doctor of Philosophy

concentration in Spanish

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis

- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric
- POW 6386: Brazilian Drama
- POW 6905: Individual Work
- POW 6930: Rotating Topics in Brazilian or Portuguese Literature

Sociology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Sociology and Criminology & Law Department](#)

Sociology Program Information

Sociologists conduct research to understand the social forces that shape all of our lives, often in hopes of improving everyday life and the life chances of each person. Graduate studies in sociology provide the people skills and technical skills to organize information, communicate analytical research to academic and lay audiences, and prepare well-reasoned and carefully-written reports and documents that contribute to societal well-being. Our award-winning and internationally-known faculty successfully mentor graduate students to complete their studies and become established in their professional academic and nonacademic careers.

We offer particular expertise in these areas: environment and resources, families, aging, gender, health, sexualities, life course, and race-ethnicity in US and global perspectives. There is also considerable expertise in: demography, social inequality, Latin American studies, Latino sociology, social psychology, deviance, and political sociology. We take great pride in the fact that our faculty are involved in interdisciplinary research projects that span nearly all of the University's colleges and academic programs, including the School of Natural Resources and the Environment, the Water Institute, the Emerging Pathogens Institute, the Center for Latin American Studies, the Center for European Studies, the Center for Women's Studies and Gender Research, the Health Science Center, and the Jewish Studies Center. Wherever you go on campus, you will most likely find at least one Sociologist from our department making major contributions.

Minimum requirements for the M.A. and Ph.D. degrees are given in the [Graduate Degrees](#) section of this catalog.

Admission to either Sociology graduate program requires a bachelor's degree in Sociology or related social science as approved by the Department. Current UF students may also enter the M.A. program through the combined B.A./M.A. program. The Sociology graduate programs look for mature students with outstanding potential and research interests that complement those of our faculty.

Prospective students should examine the research interests of the Sociology Graduate Faculty to obtain a more detailed sense of faculty expertise and research areas, see the department website: <http://soccrim.clas.ufl.edu/graduate/>. Applications for admission and fellowship support are due December 1 of each year. Students planning to apply for admission should take the Graduate Record Examination at the earliest possible date.

Degrees Offered with a Major in Sociology

Doctor of Philosophy

without a concentration

concentration in Tropical Conservation and Development

concentration in Women's/Gender Studies

Master of Arts

without a concentration

concentration in Tropical Conservation and Development

Courses

- SYA6018: Classical Social Theories
- SYA6126: Contemporary Sociological Theory
- SYA6305: Methods in Social Research I
- SYA6306: Methods in Social Research II
- SYA6315: Qualitative Research Methods
- SYA6327: Research Problems in Deviance
- SYA6407: Quantitative Research Methods
- SYA6905: Individual Work
- SYA6910: Supervised Research
- SYA6942: Applied Social Research Project
- SYA6971: Research for Master's Thesis
- SYA7933: Special Study in Sociology
- SYA7979: Advanced Research
- SYA7980: Research for Doctoral Dissertation
- SYD 6436: Metropolitan Growth and Development
- SYD 6517: Seminar in Environment and Society
- SYD 6518: Core Issues in Environmental and Resource Sociology
- SYD 6706: Racial and Ethnic Relations
- SYD 6707: Black and White Americans: Sociological Perspectives
- SYD 6807: Sociology of Gender
- SYD 6825: Men and Masculinities
- SYD 7808: Reproduction and Gender
- SYO 6107: American Families
- SYO 6126: Family Theories
- SYO 6175: Topics in Family Research
- SYO 6407: Health Disparities
- SYO 6427: Health and Aging
- SYO 6535: Social Inequality
- SYD 6806: Gender and Society
- SYP 6115: Seminar in Symbolic Interaction
- SYP 6517: Theories of Crime and Deviance
- SYP 6545: Sociology of Law
- SYP 6735: Sociology of Aging and the Life Course
- SYP 6736: Sociology of the Aged
- SYP 6745: Aging and End-of-Life Issues

Spanish

College

[College of Liberal Arts and Sciences](#)

Department/School

[Spanish and Portuguese Studies Department](#)

Degrees

Master of Arts

Master of Arts in Teaching

Spanish and Portuguese Studies Departmental Courses

- FOL 6326: Technology in Foreign Language Education
- FOW 6930: Special Study in Romance Languages and Literatures
- SPN 6166: Teaching Spanish for the Professions
- SPN 6940: Supervised Teaching
- SPW 6545: Spanish Romanticism
- SPN 6705: Foundations of Hispanic Linguistics
- SPN 6845: History of the Spanish Language
- SPS 6905: Individual Study
- SPS 6910: Supervised Research
- SPS 6940: Supervised Teaching
- SPS 7979: Advanced Research
- SPS 7980: Research for Doctoral Dissertation
- SPW 6535: Spanish Romanticism

Spanish

- SPN 6315: Advanced Composition and Syntax
- SPN 6715: Formal Instruction and Acquisition of Spanish
- SPN 6735: Special Study in Spanish Linguistics
- SPN 6785: Advanced Spanish Phonetics
- SPN 6827: Sociolinguistics of the Spanish-Speaking World
- SPN 6835: Spanish and Spanish-American Dialectology
- SPN 6845: History of the Spanish Language
- SPN 6848: Medieval Spanish Linguistics
- SPN 6855: Structure of Spanish
- SPN 6856: Spanish in Contact: Issues in Bilingualism
- SPN 6900: Directed Readings in Spanish
- FOL 6943: Romance Language Teaching Methods
- SPN 6945: Practicum in Advanced College Teaching
- SPW 6209: Colonial Spanish-American Literature
- SPW 6216: Spanish Prose Fiction of the Golden Age
- SPW 6236: Spanish-American Narrative from the origins to Criollismo
- SPW 6269: Spanish Novel of the Nineteenth Century
- SPW 6278: Postwar Spanish Fiction
- SPW 6285: Contemporary Spanish-American Narrative I
- SPW 6286: Contemporary Spanish-American Narrative II
- SPW 6306: Spanish-American Theater
- SPW 6315: Spanish Drama of the Golden Age
- SPW 6337: Golden Age Poetry
- SPW 6345: Twentieth-Century Spanish Poetry
- SPW 6356: Spanish-American Poetry from Romanticism to Vanguardismo
- SPW 6357: Contemporary Spanish-American Poetry
- SPW 6366: Spanish-American Essay
- SPN 6425: Writing for the Profession
- SPW 6606: Cervantes
- SPW 6729: The Generation of 1898
- SPW 6806: Introduction to Graduate Study and Research
- SPW 6902: Special Study in Spanish or Spanish-American Literature
- SPW 6905: Individual Work
- SPW 6910: Supervised Research
- SPW 6934: Seminar in Spanish American Literature and Culture
- SPW 6938: Seminar in Spanish Literature and Culture
- SPW 6971: Research for Master's Thesis
- SPW 7979: Advanced Research
- SPW 7980: Research for Doctoral Dissertation

Portuguese

- POW 6276: Twentieth-Century Brazilian Novel
- POW 6385: Brazilian Lyric

- POW6386: Brazilian Drama
- POW6905: Individual Work
- POW6930: Rotating Topics in Brazilian or Portuguese Literature

Statistics

College

[College of Liberal Arts and Sciences](#)

Department/School

[Statistics Department](#)

Degrees Offered with a Major in Statistics

Doctor of Philosophy

without a concentration

concentration in Quantitative Finance

Master of Science in Statistics

Master of Statistics

Statistics Departmental Courses

- STA5106: Computer Programs in Statistical Analysis
- STA5223: Applied Sample Survey Methods
- STA5325: Fundamentals of Probability
- STA5328: Fundamentals of Statistical Theory
- STA5503: Categorical Data Methods
- STA5507: Applied Nonparametric Methods
- STA5701: Applied Multivariate Methods
- STA5715: Applied Survival Analysis
- STA5823: Stochastic Process Methods
- STA5856: Applied Time Series Methods
- STA6092: Applied Statistical Practice
- STA6126: Statistical Methods in Social Research I
- STA6127: Statistical Methods in Social Research II
- STA6166: Statistical Methods in Research I
- STA6167: Statistical Methods in Research II
- STA6177: Applied Survival Analysis
- STA6178: Genetic Data Analysis
- STA6207: Regression Analysis
- STA6208: Basic Design and Analysis of Experiments
- STA6209: Design and Analysis of Experiments
- STA6226: Sampling Theory and Application
- STA6246: Theory of Linear Models

- STA6326: Introduction to Theoretical Statistics I
- STA6327: Introduction to Theoretical Statistics II
- STA6329: Matrix Algebra and Statistical Computing
- STA6505: Analysis of Categorical Data
- STA6526: Nonparametric Statistics
- STA6707: Analysis of Multivariate Data
- STA6826: Stochastic Processes
- STA6857: Time Series Analysis
- STA6866: Monte Carlo Statistical Methods
- STA6905: Individual Work
- STA6910: Supervised Research
- STA6934: Special Topics in Statistics
- STA6938: Seminar
- STA6940: Supervised Teaching
- STA6942: Internship
- STA6971: Research for Master's Thesis
- STA7179: Survival Analysis
- STA7249: Generalized Linear Models
- STA7334: Limit Theory
- STA7346: Statistical Inference
- STA7347: Advanced Inference
- STA7348: Bayesian Theory
- STA7466: Probability Theory I
- STA7467: Probability Theory II
- STA7527: Theory of Nonparametric Statistics
- STA7828: Topics in Stochastic Processes
- STA7934: Special Topics in Statistics
- STA7979: Advanced Research
- STA7980: Research for Doctoral Dissertation

Sustainable Development Practice

College

[College of Liberal Arts and Sciences](#)

Department/School

[Latin American Studies Department](#)

Sustainable Development Practice Program

Director: G. Galloway

Program Coordinator: C. Tarter

The Master of Sustainable Development Practice (MDP) Program offers the following academic programs:

- An interdisciplinary Master's degree in Sustainable Development Practice
- A graduate certificate in Sustainable Development Practice

The MDP Program is jointly administered by the Center for Latin American Studies and the Center for African Studies. The Master's degree is described in the *Other Master's Degrees* section of the Graduate Catalog. The certificate program is described in the *Interdisciplinary Graduate Certificates* section of the Graduate Catalog. More information about the MDP Program can also be found at the website <http://www.africa.ufl.edu/mdp/index.html>.

Degrees

Master of Sustainable Development Practice

Sustainable Development Courses

- AFS 6905: Individual Work in African Studies

- EVR 5705: Natural Resources and Innovation Systems
- LAS 6291: Conservation and Development Skills
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6943: Development Theory and Practice in Latin America
- PHC 6445: Global Public Health and Development II
- PHC 6764: Global Public Health and Development I

African Studies Courses

- AFS 5061: Africana Bibliography
- AFS 6060: Research Problems in African Studies
- AFS 6305: Development Theory and Practice Intro
- AFS 6307: Foundations of Economics for Sustainable Development
- AFS 6357: Anthropology of Humanitarian Intervention
- AFS 6905: Individual Work in African Studies

Latin American Studies Courses

- FOT 6940: Translation Studies Practicum
- LAS 6008: Ecological Principles
- LAS 6220: Issues and Perspectives in Latin American Studies
- LAS 6290: Tropical Conservation and Development
- LAS 6291: Conservation and Development Skills
- LAS 6292: Tropical Conservation and Development Research Methods
- LAS 6293: Design and Methods of Research in Latin American Studies
- LAS 6295: Latin American Business Environment
- LAS 6296: Latin American Business Topics
- LAS 6905: Individual Work
- LAS 6938: Seminar in Modern Latin American Studies
- LAS 6940: Tropical Conservation and Development Practicum
- LAS 6943: Development Theory and Practice in Latin America
- LAS 6971: Research for Master's Thesis

Additional Course Offerings

College of Agricultural and Life Sciences Courses

- ALS 5106: Food and the Environment
- ALS 5364C: Molecular Techniques Laboratory
- ALS 5905: Individual Study
- ALS 5932: Special Topics
- ALS 6046: Grant Writing
- ALS 6921: Colloquium on Plant Pests of Regulatory Significance
- ALS 6925: Integrated Plant Medicine
- ALS 6930: Graduate Seminar
- ALS 6931: Plant Medicine Program Seminar
- ALS 6942: Principles of Plant Pest Risk Assessment and Management
- ALS 6943: Internship in Plant Pest Risk Assessment and Management
- BCH 5045: Graduate Survey of Biochemistry

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology

- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling

- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Women's Studies

College

[College of Liberal Arts and Sciences](#)

Department/School

[Women's Studies Department](#)

Women's Studies Program Information

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as a two certificates. The Center also offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring.

Master of Arts (thesis and non-thesis): The Center offers the Master of Arts (M.A.) thesis degree option, which requires the completion and defense of a thesis (30 credit hours), and the Master of Arts non-thesis degree option, which requires completion and defense of a project or paper (30 credit hours). All Master's students take a core curriculum of 9 graduate credits (3 courses). For the thesis M.A., the remaining 21 hours consist of 15 credits of approved electives and 6 thesis credits. For the non-thesis M.A., 21 credits of approved electives are required.

Required courses for all MA students (9 credits):

- [WST 5933: Proseminar in Women's Studies](#)
- [WST 6508: Advanced Feminist Theory](#)
- [WST 6935: Special Topics in Women's Studies](#)

Thesis

15 approved credits at 5000-level or higher

6 credits of [WST 6971: Research for Master's Thesis](#)

(3 of which must be taken in the final graduating term)

Total for MA thesis: 30 credits

Non-thesis

21 approved credits at 5000-level or higher;

at least 6 of these credits must be classes in WST.

Total for MA non-thesis: 30 credits

BA/ MA Program: UF offers a number of Bachelor's/Master's programs for superior students. The university created combined degree programs to provide academically talented students an opportunity to complete both a bachelor's and a master's degree in a shorter period of time. The program allows you to double-count graduate courses toward both degrees, thus reducing the time it would normally take to graduate by a semester or more. The combined-degree program reduces the cost of both degrees and enhances your marketability for career advancement.

Concurrent degree -MA in Women's Studies and an MA in Mass Communications (MAMC) with specialization in Journalism: When appropriate, the Center for Women's Studies and Gender Research will work with individual students to develop a collaborative degree program with the College of Journalism and Communication. At the University of Florida, students may apply to complete Master's degrees in two different programs or two Master's degrees in the same program concurrently. Those interested should discuss the proposed study with the office of Graduate Student Records (392-4643, 106 Grinter) before applying. Written approval is needed from each academic unit and the Graduate School Dean. The student must be officially admitted to both programs through regular procedures. No more than 9 credits from the first program may be applied toward the second.

MA/J.D. Joint Degree: The faculties of the Levin College of Law and Women's Studies in the College of Liberal Arts and Sciences have approved a joint degree program culminating in both a J.D. degree, awarded by the College of Law, and an M.A. degree (thesis or non-thesis), awarded by the College of Liberal Arts and Sciences. Under this joint degree program, a student can obtain both degrees in approximately one year less than it would take to obtain both degrees if pursued consecutively. A student must satisfy the curriculum requirements for each degree before either degree is awarded. At least 12 credits must be taken in each program. The graduate program in Women's Studies will accept 12 credits of appropriate professional courses toward the M.A. degree. The 12 credits selected from the professional curriculum must be approved by the Graduate Coordinator upon the recommendation of the student's graduate supervisory committee. Reciprocally, the law school will accept 12 credits of appropriate Women's Studies courses toward the satisfaction of the J.D. degree. Admission to the second program is required no later than the end of the third consecutive semester after beginning one degree of the joint degree program. A summer term is counted as a single semester.

Certificates (MA. or Ph.D. level): Two graduate certificates in Women's Studies for master's and doctoral students are offered in conjunction with degree programs in other academic units. The Graduate Certificate in Women's Studies and the Graduate Certificate in Gender and Development require specific sets of course work, designed to give students a thorough grounding in the discipline. The Graduate Certificate in Women's Studies offers students a general overview of the field. The Graduate Certificate in Gender and Development allows students to focus on issues related to gender, economic development, and globalization.

Graduate courses in women's studies are also available from the following academic units or programs:

- Agricultural and Life Sciences
- Anthropology
- Counselor Education
- English

- History
- Journalism and Communication
- Languages, Literatures, and Cultures
- Latin American Studies
- Linguistics
- Medicine
- Philosophy
- Psychology
- Religion
- Sociology
- Teaching and Learning

For more information, please see our website: <http://web.wst.ufl.edu>.

Degrees Offered with a Major in Women's Studies

Master of Arts

Courses

- WST 5933: Proseminar in Women's Studies
- WST 6348: Ecofeminism
- WST 6508: Advanced Feminist Theory
- WST 6905: Independent Study
- WST 6935: Special Topics in Women's Studies
- WST 6936: Feminist Challenges to Disciplinary Paradigms
- WST 6946: Internship in Applied Women's Studies and Gender Research
- WST 6957: International Studies in Women's Studies and Gender Research
- WST 6971: Research for Master's Thesis

Zoology

College

[College of Liberal Arts and Sciences](#)

Department/School

[Biology Department](#)

Zoology Program Info

Chair: Craig W. Osenberg

Graduate Coordinator: W. Bradley Barbazuk

The Department of Biology offers graduate programs in Zoology leading to the Master of Science in Teaching, Master of Science, and Doctor of Philosophy degrees. The requirements for these degrees can be found in the [Graduate Degrees](#) section of this catalog.

Our program emphasizes Integrative Biology, with integration accomplished through a focus on the theoretical foundations provided by evolutionary biology and ecology. Our faculty has expertise in ecology, evolution, behavior, comparative and environmental physiology, genetics, development, and phylogenetics. We work in a variety of terrestrial and aquatic environments and geographic regions (tropics through subpolar), and on a range of organisms (including plants). Our faculty value integrative research (e.g., by crossing levels of organization from gene expressions to species interactions), linking theory with data (through use of statistical and mathematical tools), and using natural history to guide the development and testing of rigorous conceptual frameworks. Many of our faculty also are interested in applying and testing basic science in applied contexts (e.g., conservation biology and ecotoxicology).

Our approach is highlighted through our first-year, required, graduate course, Integrative Principles. Each student's supervisory committee will recommend additional courses according to the academic background and research plans of the student.

Degrees Offered with a Major in Zoology

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Master of Science in Teaching

without a concentration

concentration in Tropical Conservation and Development

concentration in Wetland Sciences

Zoology Courses

- BOT 6726C: Principles of Systematic Biology

- PCB 5307C: Limnology
- PCB 5415C: Behavioral Ecology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6049: Seminar in Ecology
- PCB 6377C: Physiological Ecology of Vertebrates
- PCB 6447C: Community Ecology
- PCB 6675C: Evolutionary Biogeography
- PCB 6695: Seminar in Evolutionary Biology
- ZOO 5115C: Vertebrate Paleontology
- ZOO 5486C: Mammalogy
- ZOO 6005: Integrative Principles of Zoology I
- ZOO 6308: Dynamic Optimization Modeling in Behavioral and Evolutionary Ecology
- ZOO 6406: Biology of Sea Turtles
- ZOO 6456C: Ichthyology
- ZOO 6542: Nutritional Ecology
- ZOO 6905: Individual Studies
- ZOO 6910: Supervised Research
- ZOO 6920: Zoology Colloquium
- ZOO 6927: Special Topics in Zoology
- ZOO 6931: Seminar in Marine Turtle Biology
- ZOO 6939: Seminar in Animal Behavior
- ZOO 6971: Research for Master's Thesis
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

College of Medicine

Dean: M.L. Good

Complete faculty listings: [Follow this link.](#)

The College of Medicine offers training opportunities leading to either the Doctor of Philosophy or Master of Science degree in medical sciences. Minimum requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. For more information, please see our website: <http://med.ufl.edu>.

The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings. For further information, visit <http://idp.med.ufl.edu>.

[Departments and Programs within the College of Medicine](#)

[College of Medicine Courses](#)

Other

Biochemistry and Molecular Biology

College

[College of Medicine](#)

Department/School

[Biochemistry and Molecular Biology Department](#)

Degrees Offered with a Major in Biochemistry and Molecular Biology

Master of Science

Courses

- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6040: Research Discussion in Biochemistry and Molecular Biology
- BCH 6107: Biophysical Techniques in Proteomics and Protein Science

- BCH 6206: Advanced Metabolism
- BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control
- BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism
- BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems
- BCH 6744: Molecular Structure Determination by X-ray Crystallography
- BCH 6744L: Molecular Structure Determination by X-Ray Crystallography Laboratory
- BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy
- BCH 6745L: Molecular Structure and Dynamics by NMR Spectroscopy Laboratory
- BCH 6746: Structural Biology: Macromolecular Structure Determination
- BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics
- BCH 6749C: Numerical Methods in Structural Biology
- BCH 6876: Recent Advances in Membrane Biology
- BCH 6875: Crystallography and Cryo-Electron Microscopy
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- BCH 6905: Independent Studies in Biochemistry and Molecular Biology
- BCH 6910: Supervised Research
- BCH 6936: Biochemistry Seminar
- BCH 6971: Research for Master's Thesis
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- BCH 7414: Advanced Chromatin Structure
- BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics
- BCH 7979: Advanced Research
- BCH 7980: BioChem Doctoral Research

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration

- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy

- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Biostatistics (Medicine)

College

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Department

[Biostatistics Department](#)

Degrees

Doctor of Philosophy

Master of Science

Biostatistics Departmental Courses

- GMS 6818: Design and Conduct Clinical Trials I
- GMS 6819: Design and Conduct Clinical Trials II
- GMS 6827: Advanced Clinical Trial Methods
- GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6020: Clinical Trial Methods
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6050C: Biostatistical Methods I
- PHC 6051: Biostatistical Methods II
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
- PHC 6080: SAS for Public Health - Data
- PHC 6081: SAS for Public Health - Analysis
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6937: Special Topics in Public Health

- PHC 6946: Public Health Internship
- PHC 7013: Bias in Observational Research
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7925: Biostatistics Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- STA5223: Applied Sample Survey Methods
- STA5325: Fundamentals of Probability
- STA5328: Fundamentals of Statistical Theory
- STA5503: Categorical Data Methods
- STA5701: Applied Multivariate Methods
- STA5715: Applied Survival Analysis
- STA6092: Applied Statistical Practice
- STA6166: Statistical Methods in Research I
- STA7249: Generalized Linear Models
- STA7346: Statistical Inference

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
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- GMS 6074: Comparative and Evolutionary Neurobiology
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- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
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- GMS 6195: Epigenetics Journal Club
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- GMS 6198: Bacterial Pathogenesis Journal Club
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- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
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- GMS 6382: Special Topics in Immunology
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- GMS 6411: Fundamentals of Cardiovascular Physiology
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- GMS 6413: Advances in Hypertension Research
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- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends

- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Epidemiology (Medicine)

College

[College of Medicine](#)

Department

[Epidemiology Department](#)

Epidemiology Program Information

The **Ph.D. in Epidemiology program** is in the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The program requires a minimum of 90 semester credits beyond the bachelor's degree. All students must complete a minimum of 9 credits in Epidemiology foundation course work, at least 36 credits of epidemiology core courses, 6 credits of statistics electives, 18 credits of epidemiology electives, 15 credits of general electives, and 12 credits of dissertation research. Students must also complete at least two mentored teaching experiences. All entering students who do not hold MPH or equivalent degrees are also required by the College of Public Health and Health Professions to complete an Introduction to Public Health course.

Students in the Ph.D. program in Epidemiology are admitted to work with a research mentor on that mentor's project, and that research mentor funds the student. Other funding sources are available such as the Graduate School and the Department.

The core course work is designed to incorporate competencies recommended in the report of the 2002 workshop on doctoral education in epidemiology from the American College of Epidemiology and the Association of Schools and Programs of Public Health, and criteria for applied epidemiology competencies. The overall outcomes expected of all graduates are as follows:

1. Apply epidemiological methods to address critical and/or emerging public health issues through the use of:
 - Appropriate epidemiological research designs
 - Advanced statistical analysis methods for health studies
 - Data structures and measurement methods for health research
 - Biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being
 - Depth of knowledge in an area of specialization
2. Assimilate the history, philosophy, and ethical principles of epidemiology into current research
3. Develop grant proposals and manage research projects
4. Write scientific papers for publication in peer-reviewed journals, and communicate research results to scientists, policy makers, and the public
5. Compete successfully for research and teaching positions in academic institutions, federal or state agencies, or private institutions.

Details of the Ph.D. in Epidemiology program and application information are available at our website: <http://epidemiology.php.ufl.edu/about/ph-d-in-epidemiology-2>.

The **Master of Science in Epidemiology** degree is offered by the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The 36 credit program prepares students for careers in the public health arena that are focused on the surveillance and prevention of illnesses among diverse populations around the world. Students are trained in the foundational aspects of epidemiology including person, place and time, risk and protective factors, and the social determinants of health. Areas of focus include: chronic disease, infectious disease, geriatric, environmental, psychiatric, social, cancer and maternal and child health epidemiology.

Graduates of the M.S. in Epidemiology program are trained to:

- Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to areas of interest,
- Choose appropriate measurement and analytic methods to study health and disease in a population,
- Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health.

The program consists of required coursework and the successful completion of a thesis. The thesis is required to demonstrate skill in independent inquiry and investigation, under the tutelage of a mentor. Students may complete the course in three semesters with 36 credits.

More program information, including specific course requirements and elective options, is described at the program website: <http://epidemiology.php.ufl.edu/about/masters-of-science-in-epidemiology/mse-curriculum-2>.

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Science

Epidemiology (PHHP/COM) Departmental Courses

- GMS 6820: Advanced Epidemiology Methods
- PHC 6008: Cardiovascular Epidemiology
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6034: Epidemic Investigation
- PHC 6070: Epidemiology of Aging
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7007: Cancer Epidemiology
- PHC 7038: Psychiatric Epidemiology
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7427: Ethics in Population Science
- PHC 7727: Grant Writing for Population Health Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7902: Epidemiology Supervised Research Writing Circle
- PHC 7910: International Field Epidemiology
- PHC 7916: National Field Epidemiology
- PHC 7934: Seminar I: Epidemiology Past, Present, and Future
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense

- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes

- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Genetics and Genomics

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Medicine](#)

Degrees Offered with a Major in Genetics and Genomics

Doctor of Philosophy

Doctor of Philosophy - Clinical and Translational Science

Courses

- AGR 6322: Advanced Plant Breeding
- ANG 6532: Molecular Genetics of Disease
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 7410: Advanced Gene Regulation
- CAP 5510: Bioinformatics
- CAP 5515: Computational Molecular Biology
- CAP 5805: Computer Simulation Concepts
- CIS 6930: Special Topics in CIS
- COT 5405: Analysis of Algorithms
- FOR 6310: Forest Genetics and Tree Improvement
- FOR 6934: Topics in Forest Resources and Conservation
- FOR 7979: Advanced Research

- FOR 7980: Research for Doctoral Dissertation
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6920: Genetics Journal Colloquy
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- HOS 6201: Breeding Perennial Cultivars
- PCB 5065: Advanced Genetics
- PCB 5235L: Experiments in Immunology
- PCB 5615: Molecular Evolution and Systematics
- PCB 6528: Plant Cell and Developmental Biology
- PCB 7979: Advanced Research
- PCB 7980: Research for Doctoral Dissertation
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6178: Genetic Data Analysis
- STA 6208: Basic Design and Analysis of Experiments
- STA 6329: Matrix Algebra and Statistical Computing
- STA 6934: Special Topics in Statistics
- STA 7979: Advanced Research
- STA 7980: Research for Doctoral Dissertation
- ZOO 6927: Special Topics in Zoology
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
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- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
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- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
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- GMS 6073: Developmental Neurobiology

- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
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- GMS 6145: Immunology of Gene Transfer
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- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
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- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
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- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
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- GMS 6486: Fundamentals of Biological Aging
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- GMS 6496: Recent Advances in Physiology
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- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
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- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
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- GMS 6876: Law & Ethics of Aging
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- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology

- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
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- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
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- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Medical Sciences

College

[College of Medicine](#)

Interdisciplinary Program in Biomedical Sciences

Dean: M. L. Good.

Associate Dean for Graduate Education: P. A. Gulig

Complete faculty listing [Follow this link](#).

The College of Medicine offers training opportunities leading to either the Doctor of Philosophy or Master of Science degree in medical sciences. Minimum requirements for these degrees are given in the General Information section of this catalog. The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings.

Interdisciplinary Program (IDP) in Biomedical Sciences

The goal of the IDP is to prepare students for a diversity of careers in research and teaching in academic and commercial settings, after completion of the Ph.D. in Medical Sciences. The program provides a modern, comprehensive graduate education in biomedical sciences while providing both maximum program flexibility and appropriate specialization for advanced training. The IDP represents a cooperative effort of six interdisciplinary advanced concentrations with participation of over 250 faculty members.

During the first semester of study, students undertake a common, comprehensive interdisciplinary core curriculum of classroom study and a responsible conduct of research course. During the second semester, students begin to focus their coursework in one or two concentrations. Throughout the first two semesters, students participate in at least three laboratory rotations in any of the laboratories of the IDP faculty members. The advanced concentration and the supervisory committee chair are chosen no later than the end of the spring semester to maximize flexibility and facilitate an informed decision. Students entering the advanced concentrations take more specialized courses that strengthen their knowledge of these disciplines. The advanced concentration curricula are flexible enough to allow students to integrate course work offered in other advanced concentrations. In addition, journal clubs and seminars associated with their research interests allow students to further augment their scientific development.

Prospective students should have strong backgrounds in biology including genetics, chemistry (organic, quantitative, and biochemistry), physics, and calculus. Demonstrated high motivation and a serious intention to pursue research-related careers are also important considerations. This is best accomplished by performing independent study in a research laboratory for at least a semester, with a year or more being preferred. For more information, write IDP, P.O. Box 100229, College of Medicine, Gainesville, FL 32610-0229. For expanded information about the IDP, visit <http://idp.med.ufl.edu>.

Advanced Concentration in Biochemistry and Molecular Biology

Directors: Robert McKenna and Kevin Brown

The Graduate Faculty of the biochemistry and molecular biology advanced concentration share an interest in the relationships between the structure of a biological macromolecule and the function of that molecule in the cell. The structure (encoded ultimately by the genome) sets the phenotype of the organism. The uniting theme among the Graduate Faculty is their approach to research: Each uses the techniques of biochemistry and molecular biology/genetics to characterize the function of a macromolecule and show how function (and the process it is part of) is determined by the structure of that molecule and its interactions with other macromolecules. Specific research directions range from physical determination of the molecular structure of proteins to regulation of cellular processes to the genetic mapping of disease loci.

For information about other programs and courses in this field, see the Department of Biochemistry and Molecular Biology listing.

Advanced Concentration in Biochemistry and Molecular Biology Courses

- BCH 6040: Research Discussion in Biochemistry and Molecular Biology
- BCH 6107: Biophysical Techniques in Proteomics and Protein Science
- BCH 6206: Advanced Metabolism
- BCH 6207: Advanced Metabolism: Role of Membranes in Signal Transduction and Metabolic Control
- BCH 6208: Advanced Metabolism: Regulation of Key Reactions in Carbohydrate and Lipid Metabolism
- BCH 6209: Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleotide Metabolism
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems
- BCH 6744: Molecular Structure Determination by X-ray Crystallography
- BCH 6745: Molecular Structure and Dynamics of NMR Spectroscopy
- BCH 6746: Structural Biology: Macromolecular Structure Determination
- BCH 6747: Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics
- BCH 6749C: Numerical Methods in Structural Biology
- BCH 6876: Recent Advances in Membrane Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- BCH 6936: Biochemistry Seminar
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- BCH 7515: Structural Biology/Advanced Physical Biochemistry: Kinetics and Thermodynamics
- GMS 6195: Epigenetics Journal Club

Advanced Concentration in Cancer Biology

Directors: Dietmar Siemann and Maria Zajac-Kaye

The Cancer Biology Concentration (CBC) provides training opportunities in cancer research ranging from basic to translational. The program spans many disciplines, including molecular and cell biology, genetics and epigenetics, biochemistry, microbiology, pharmacology, anatomy, pathology, epidemiology, bioinformatics, immunology and many others involved in the understanding of the development, progression, dissemination, and treatment of cancer.

Students in the will have opportunities to work with outstanding cancer investigators in state of the art facilities. Through combinations of courses, seminars, small group discussions, and an interdisciplinary approach to research, the program allows students to gain a unique understanding of cancer and to build a firm foundation upon which they can build careers in academia, government, and biotech and pharmaceutical industry.

For more information please see our website: <http://idp.med.ufl.edu/about/cancer-biology-concentration>

Advanced Concentration in Cancer Biology Courses

- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 7410: Advanced Gene Regulation
- BCH 7412: Epigenetics of Human Disease and Development
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6009: Principles of Drug Action
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6090: Research in Medical Sciences
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6338: Recent Advances in Cancer Metastasis
- GMS 6421: Cell Biology
- GMS 6644: Apoptosis
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 6691: Special Topics in Cell Biology and Anatomy
- GMS 6812: Cancer Health Outcomes Assessment
- GMS 6818: Design and Conduct Clinical Trials I
- PHC 6937: Special Topics in Public Health

Advanced Concentration in Genetics

Director: M. R. Wallace

The concentration in genetics offers graduate training in all facets of modern molecular genetics including bacterial, viral, lower eukaryotic, mouse, developmental, and human genetics. The courses listed are taught in a 5-week modular format.

Advanced Concentration in Genetics Courses

- BCH 7410: Advanced Gene Regulation
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6181: Special Topics in Microbiology
- GMS 6195: Epigenetics Journal Club
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6506: Biologic Drug Development
- GMS 6920: Genetics Journal Colloquy
- GMS 7192: Journal Colloquy

Advanced Concentration in Health Outcomes and Policy

The University of Florida's Master of Science in Medical Sciences, with a concentration in Health Outcomes and Policy, is a specialized degree designed to put its graduates at the forefront of innovative research to develop, implement, and evaluate clinical and community-based programs that promote health and health outcomes. Throughout the curriculum, special emphasis is placed on health disparities and vulnerable populations. In addition to traditional graduate students, our program is available to medical students, post-doctoral researchers, fellows, residents, Ph.D. students, and junior faculty.

We also offer a 16-credit graduate certificate designed to complement other concurrent courses of study and to provide continuing education opportunities for faculty. The certificate can be completed in one year on a part-time basis.

Advanced Concentration in Health Outcomes and Policy Courses

- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6802: Examining Health Outcomes for Chronic Diseases in Clinical and Community-based Research
- GMS 6803: Data Management for Clinical Research
- GMS 6804: Medical Informatics
- GMS 6811: Grant Writing Skills for Clinical Research
- GMS 6812: Cancer Health Outcomes Assessment
- GMS 6816: Pediatric Child Health Outcomes Assessment for Clinical and Community-Based Research
- GMS 6821: Measuring and Analyzing Health Outcomes I
- GMS 6822: Measuring and Analyzing Health Outcomes II
- GMS 6826: Advanced Design and Methodology for Case-Control Studies in Clinical Research
- GMS 6829: Longitudinal Research Design
- GMS 6830: Health Outcomes Research and Policy Development
- GMS 6832: Economic Methods for Evaluating Value in Health
- GMS 6833: Health Care Policy and Vulnerable Populations
- GMS 6834: Health Policy and Formulation of Payment Mechanisms for Health Care
- GMS 6835: Health Policy Issues in Children's Health
- GMS 6842: Translational Research Methods
- GMS 6844: Experimental and Quasi-Experimental Research Designs for Community Settings
- GMS 6846: Meta-Analysis in Clinical, Health Services Research and Public Health
- GMS 6851: Health Outcomes Research
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6853: Applied Topics in Dissemination and Implementation Science
- GMS 6854: Applied Topics in Clinical Effectiveness Research
- GMS 6881: Special Studies in Epidemiology and Health Policy Research
- GMS 6882: Directed Readings in Epidemiology and Health Policy
- GMS 6883: Practicum Experience in Epidemiology and Health Policy
- GMS 6884: Research in Epidemiology and Health Policy
- GMS 6885: Research Designs in Health Outcomes and Policy
- GMS 6893: Clinical and Translational Science Seminar Series
- GMS 6896: Health Outcomes and Policy Seminar

Advanced Concentration in Immunology and Microbiology

Directors: R. C. Condit and C. E. Mathews

The concentration in immunology and microbiology offers graduate training in cellular and molecular immunology (including immunopathology, immunogenetics, and autoimmunity) and in microbiology (including virology, bacteriology, microbial genetics, and microbial pathogenesis). The courses listed are taught in a 5-week modular format.

Advanced Concentration in Immunology and Microbiology Courses

- VME 6505: Autoimmunity
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6193: Research Conference in Oral Biology
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6921: Immunology/Microbiology Journal Colloquy
- GMS 7192: Journal Colloquy
- VME 6934: Topics in Veterinary Medical Sciences

Advanced Concentration in Molecular Cell Biology

Director: Alexander Ishov

Co-Director: Maria Zajac-Kaye

The advanced concentration in molecular cell biology (MCB) prepares investigators for careers in biomedical research in academic or industrial settings. This multidisciplinary specialization has more than 50 participating faculty members and offers an extraordinary range of opportunities for advanced study of life at the molecular and cellular levels. The Graduate Faculty share common interests in the molecular interactions that account for functionally integrated subcellular, cellular, and tissue organization found in living organisms. The model systems in use range from yeast and cellular slime molds through *Drosophila* to birds and mammals. These systems are manipulated and analyzed using a wide range of powerful molecular, genetic, protein chemical, immunological, pharmacological, nuclear magnetic resonance (NMR), and microscopic imaging strategies. Students who select MCB take advanced course work and initiate independent research during the second year. This approach provides broad-based vision early in the program and the appropriate degree of specialization later on.

Advanced Concentration in Molecular Cell Biology Courses

- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6013: Developmental Genetics
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6381: Special Topics in Pathology
- GMS 6417: Integrative Aging Physiology
- GMS 6421: Cell Biology
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6644: Apoptosis
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6691: Special Topics in Cell Biology and Anatomy
- GMS 6692: Research Conference in Anatomy and Cell Biology

Advanced Concentration in Neuroscience

Directors: W. J. Streit and J. L. Bizon

The Graduate Faculty associated with the neuroscience advanced concentration have expertise in neuroanatomy, molecular and cellular neurobiology, neurodevelopment and aging, neurotransmitter chemistry and pharmacology, neuroendocrinology and neuroimmunology, cellular and molecular neuro-oncology, cellular and membrane neurophysiology, somatosensory and motor systems, transplantation neurobiology, injury and repair of the CNS, and neurobehavioral sciences. Study in marine vertebrate and invertebrate neurobiology is available through Graduate Faculty at the Whitney Laboratory.

Advanced Concentration in Neuroscience Courses

- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6023: Principles of Neuroscience III – Molecular Neuropharmacology and its Clinical Application
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6705: Functional Human Neuroanatomy
- GMS 6709: Current Topics in Vision
- GMS 6711: Neurobiology of Pain
- GMS 6750: Molecular Pathobiology of Neural Disease
- GMS 6760: Comparative Biology of Cell Signaling
- GMS 6791: Visual Neuroscience Journal Club
- GMS 6792: Neuroscience Graduate Research Seminar
- GMS 7794: Neuroscience Seminar
- GMS 7795: Special Topics in Neuroscience

Advanced Concentration in Oral Biology

Chair: R. A. Burne

Graduate Coordinator: J. Brady

The Department of Oral Biology, a unit of the College of Dentistry, offers graduate study leading to the degree of Doctor of Philosophy as part of the College of Medicine's Interdisciplinary Program (IDP) in Biomedical Sciences. The work is designed to provide the degree candidate with a strong background in basic biological principles relevant to the various subspecialties of oral biology, as well as specialized training in various aspects of the diseases and disorders of the oral cavity.

Areas of emphasis include application of microbiological, immunological, cellular, and molecular biological concepts and technologies to answer questions about host-pathogen interactions in oral disease; vaccine development; oral microbial physiology; oral bacterial biofilm biology; saliva and salivary gland biology; microbial antibiotic resistance; and autoimmune diseases. More information is available at <http://dental.ufl.edu/departments/oral-biology/>.

Prerequisites for admission in addition to those of the Graduate School include a broad base of courses in mathematics, physics, organic and analytic chemistry, advanced biology, biochemistry, molecular biology, and statistical methods. Specific requirements can be obtained from the Graduate Coordinator or the IDP office.

Oral Biology Departmental Courses

- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6173: Stomatognathic System: Form and Function
- GMS 6176: Biology of Tooth Supporting Structures I
- GMS 6177: Biology of Tooth Supporting Structures II
- DEN 6680: Principles and Craniofacial Biology and Emerging Therapies
- DEN 6681: Craniofacial Pathobiology
- GMS 7179: Journal Colloquy

Advanced Concentration in Physiology and Pharmacology

Directors: J. K. Harrison and H. Kasahara

The Graduate Faculty associated with this advanced concentration have expertise in a variety of disciplines, including molecular and cellular biology, pharmacology, physiology, neuroscience, and biochemistry. These faculty bring together unique strengths to provide the students with diverse training. Students may train in laboratories involved in cardiovascular, neuro, endocrine, and developmental physiology; pharmacology; and toxicology. Students conduct research at the molecular, cellular, and integrative levels. Many of the faculty are involved in multidisciplinary, collaborative research efforts that aim to understand basic physiological mechanisms and pathophysiological processes (e.g., cardiovascular, neurodegenerative, and neoplastic diseases).

Advanced Concentration in Physiology and Pharmacology Courses

- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology

- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

Core Courses--IDP

- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6090: Research in Medical Sciences
- GMS 6901: Seminar in Biology of Disease
- GMS 7003: Responsible Conduct of Biomedical Research
- GMS 7593: Topics in Pharmacology and Toxicology

General and Advanced Courses

- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6090: Research in Medical Sciences
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6872: Science and Ethics of in Vitro Fertilization
- GMS 6905: Independent Studies in Medical Sciences
- GMS 6910: Supervised Research
- GMS 6931: Ethical and Policy Issues in Clinical Research
- GMS 6940: Supervised Teaching
- GMS 6971: Research for Master's Thesis
- GMS 7001: Fundamentals of Biomedical Science Education
- GMS 7002: Practicum in Biomedical Science Education
- GMS 7003: Responsible Conduct of Biomedical Research
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation

Other Interdisciplinary Doctoral Concentrations Offered

The interdisciplinary emphasis on vision sciences is also discussed in the Interdisciplinary Graduate Studies section. The program director is Dr. W. Clay Smith, P.O. Box 100284 College of Medicine, Gainesville, FL 32610 or (352) 392-0476.

Interdisciplinary study in toxicology is coordinated by the Center for Environmental and Human Toxicology and is concerned with the effects of chemicals on human and animal health. Additional information is given in the Interdisciplinary Graduate Studies section of this catalog or may be obtained from the codirector, Dr. Colin Summers, P.O. Box 100215, College of Medicine, Gainesville, FL 32610 or (352) 392-0740.

Degrees Offered with a Major in Medical Sciences

Doctor of Philosophy

without a concentration

concentration in Biochemistry and Molecular Biology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Cancer Biology

concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Genetics

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Health Outcomes and Policy

optional second concentration in Clinical and Translational Science

concentration in Imaging Science and Technology

concentration in Immunology and Microbiology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Molecular Cell Biology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Neuroscience

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Physiology and Pharmacology

optional second concentration in Clinical and Translational Science

optional second concentration in Health Outcomes and Policy

concentration in Toxicology

Master of Science

without a concentration

concentration in Clinical and Translational Science

concentration in Health Outcomes and Policy

concentration in Translational Biotechnology

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
- GMS 5905: Special Topics in Biomedical Sciences
- GMS 6001: Fundamentals of Biomedical Sciences I
- GMS 6003: Fundamentals of Graduate Research and Professional Development
- GMS 6004: IDP Practical Laboratory
- GMS 6005: Fundamentals of Developmental Biology
- GMS 6006: Fundamentals of Immunology and Microbiology
- GMS 6007: Fundamentals of Neuroscience
- GMS 6008: Fundamentals of Physiology and Functional Genomics
- GMS 6009: Principles of Drug Action
- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6021: Principles of Neuroscience I: Organization and Development of the Nervous System
- GMS 6022: Principles of Neuroscience II: Cellular and Molecular Neuroscience
- GMS 6024: Principles of Neuroscience IV: Neural Integration & Control
- GMS 6029: Brain Journal Club
- GMS 6031: Molecular Immunology
- GMS 6032: Mechanisms of Host Defense
- GMS 6033: Immunity in Health and Disease
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6051: Signal Transduction
- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6070: Sensory and Motor Systems
- GMS 6072: Neuroendocrinology and Neuroimmunology
- GMS 6073: Developmental Neurobiology
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6078: Synaptic Function and Plasticity
- GMS 6079: Computers in Biology
- GMS 6080: Basic Magnetic Resonance Imaging
- GMS 6090: Research in Medical Sciences
- GMS 6096: Introduction to NIH Grant Writing for Biomedical Sciences
- GMS 6099: Foundations in Aging and Geriatric Research
- GMS 6121: Infectious Diseases
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6160: Introduction to Oral Biology I
- GMS 6161: Introduction to Oral Biology II
- GMS 6169: Antimicrobial Strategies
- GMS 6173: Stomatognathic System: Form and Function

- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6191: HIV Journal Club
- GMS 6193: Research Conference in Oral Biology
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6223: Drosophila Neurogenetics: from Development to Function
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6233: Quantitative Models of Protein Evolution and Phylogenetics
- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology

- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

Molecular Genetics and Microbiology

College

[College of Medicine](#)

Department/School

[Molecular Genetics and Microbiology Department](#)

Courses

- GMS 6010: Yeast Genetics
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6015: Human Genetics II
- GMS 6034: Advanced Virology I: Genetics and RNA
- GMS 6035: Advanced Virology II: RNA Viruses
- GMS 6036: Molecular Virology III: DNA Viruses
- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
- GMS 6040: Host-Pathogen Interactions
- GMS 6140: Principles of Immunology
- GMS 6145: Immunology of Gene Transfer
- GMS 6151: Genetic Analysis Using Model Systems
- GMS 6153: Advanced Bacterial Genetics
- GMS 6155: DNA Microarray Data Analysis
- GMS 6169: Antimicrobial Strategies
- GMS 6181: Special Topics in Microbiology
- GMS 6190: Seminar
- GMS 6195: Epigenetics Journal Club
- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
- GMS 6221: Ethics in Genetics
- GMS 6231: Genomics and Bioinformatics
- GMS 6232: Advanced Applications of Bioinformatics in Genetics
- GMS 6251: Molecular Therapy I – Vectors and Molecular Mechanisms
- GMS 6252: Molecular Therapy II – Disease Targets and Applications
- GMS 6253: Molecular Therapy III – Immunology of Gene Transfer
- GMS 6290: Genetics/Genomics Program Graduate Seminar
- GMS 6338: Recent Advances in Cancer Metastasis
- GMS 6506: Biologic Drug Development
- GMS 6920: Genetics Journal Colloquy
- GMS 6921: Immunology/Microbiology Journal Colloquy
- GMS 6943: Master's Translational Biotechnology Internship
- GMS 7093: Introduction to Clinical and Translational Research
- GMS 7191: Research Conference
- GMS 7192: Journal Colloquy
- GMS 7194: Biotechnology Seminar
- PCB 5235L: Experiments in Immunology

Degrees

Doctor of Philosophy - Mammalian Genetics

College of Medicine Courses

- ENU 6652: Clinical Rotation in Diagnostic Radiology
- ENU 6657: Diagnostic Radiological Physics
- GEY 5935: Topics in Gerontology
- GEY 6220: Overview of Geriatric Care Management
- GEY 6646: Issues and Concepts in Gerontology
- GEY 6905: Independent Study in Gerontology
- GEY 6936: Professional Development in Gerontology/Geriatrics
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- GMS 6196: Virology Journal Club
- GMS 6198: Bacterial Pathogenesis Journal Club
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- GMS 6223: Drosophila Neurogenetics: from Development to Function
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- GMS 6234: Introduction to phylodynamics: A practical approach to molecular phylogenetics of pathogens
- GMS 6290: Genetics/Genomics Program Graduate Seminar

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- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6331: Stem Cell Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
- GMS 6381: Special Topics in Pathology
- GMS 6382: Special Topics in Immunology
- GMS 6400C: Principles of Physiology
- GMS 6405: Fundamentals of Endocrine Physiology
- GMS 6406: Fundamentals of Pulmonary/Respiratory Physiology
- GMS 6408: Fundamentals of Renal Physiology
- GMS 6410: Physiology of the Circulation of Blood
- GMS 6411: Fundamentals of Cardiovascular Physiology
- GMS 6412: Human Physiology for Biomedical Engineering
- GMS 6413: Advances in Hypertension Research
- GMS 6414: Advanced Renal Physiology
- GMS 6415: Fundamentals of Gastrointestinal Physiology
- GMS 6416: Human Endocrinology and Anatomy of Reproduction
- GMS 6471: Fundamentals of Physiology and Functional Genomics I
- GMS 6472: Fundamentals of Physiology and Functional Genomics II
- GMS 6473: Fundamentals of Physiology and Functional Genomics III
- GMS 6483: Theories of Aging
- GMS 6485: Population Based Research on Aging
- GMS 6486: Fundamentals of Biological Aging
- GMS 6490C: Research Methods in Physiology
- GMS 6491: Journal Club in Physiology
- GMS 6495: Seminar in Physiology
- GMS 6496: Recent Advances in Physiology
- GMS 6497: Seminar on Vision
- GMS 6506: Biologic Drug Development
- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6609: Advanced Gross Anatomy
- GMS 6621: Vision
- GMS 6622: Mitochondrial Biology in Aging and Disease
- GMS 6635: Organization of Cells and Tissues
- GMS 6642: Morphogenesis: Organ Systems I
- GMS 6643: Morphogenesis: Organ Systems II
- GMS 6644: Apoptosis
- GMS 6690: Molecular Cell Biology Journal Club
- GMS 6715: Lifestyle Interventions in Aging I: Behavioral Aspects & Clinical Outcomes
- GMS 6717: Lifestyle Interventions in Aging II: Physiologic Aspects
- GMS 6771: Clinical Neuroscience of Aging
- GMS 6876: Law & Ethics of Aging
- GMS 6845: Clinical & Translational Research Practicum
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- GMS 6970: Individual Study
- GMS 6383: Current Topics in Immunotherapy
- GMS 6683: Fundamentals of Vascular Physiology and Pathology
- GMS 5604: Medical Human Embryology
- GMS 5605: Medical Anatomy
- GMS 5606L: Medical Anatomy Lab
- GMS 5613: Medical Human Anatomy by Diagnostic Imaging
- GMS 5630: Medical Histology
- GMS 6081: Biological Imaging Techniques
- GMS 6394: Seminar in Mammalian Genetics
- GMS 6403: Advanced Endocrinology
- GMS 6484: Geriatric and Age Related Diseases
- GMS 6500: Introduction to Pharmacology
- GMS 6607C: Musculoskeletal Systems
- GMS 6719: Fundamentals of Computational Neuroscience
- GMS 6780: Addiction: Neuroscience and Trends
- GMS 6800: Fundamentals of Epidemiology
- GMS 6801: Epidemiology, Prevention, and Control of Infectious Diseases
- GMS 6810: Intermediate Epidemiology Methods
- GMS 6813: Clinical Trials
- GMS 6814: Molecular and Genetic Epidemiology
- GMS 6823: Methods for Evaluating Health Care Outcomes and Costs: Module 1
- GMS 6824: Methods for Evaluating Health Care Outcomes and Costs: Module 2
- GMS 6825: Methods for Evaluating Health Care Outcomes and Costs: Module 3
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research
- GMS 7887: Health Outcomes & Policy PhD Research Seminar

College of Nursing

Dean: A.M. McDaniel

Complete faculty listings: [Follow this link.](#)

The nationally ranked College of Nursing offers the graduate degrees of Master of Science in Nursing, Doctor of Nursing Practice, and Doctor of Philosophy in nursing sciences. Requirements for these degrees are given in the [Graduate Degrees](#) section of this catalog. Students may request special review by the College of Nursing Admissions Committee if they believe they are strong candidates for graduate study but do not fully meet all criteria.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal. Additional offerings include

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader

For additional information about the Nursing programs, visit <http://www.nursing.ufl.edu> or call (352) 273-6331.

[College of Nursing Courses](#)

Other

Nursing

College

[College of Nursing](#)

Master of Science in Nursing (MSN)

The master's degree prepares nurses for advanced practice, clinical nurse specialist, or to be a clinical nurse leader. The graduate nursing core includes nursing theory, research, statistics, health policy, ethics, finance, and health promotion. The advanced practice core includes specific theory and clinical courses with relevant clinical experiences.

The College offers the master's degree and post-master's certification for nurse midwifery and the following nurse practitioner roles: adult acute care, adult, family, pediatric, and neonatal.

Additional offerings include:

- Psychiatric/mental clinical nurse specialists/nurse practitioners
- Clinical Nurse Leader
- Graduates are eligible for Florida licensure and national certification.

To be considered for the M.S.N. program, students must meet the following minimum requirements:

- Bachelor of Science in Nursing degree with an upper-division grade point average of 3.0 or higher from a CCNE or NLN AC accredited program
- A score of 500 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination (GRE) General Test. In the new version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section. Analytical writing section is optional.
- Eligibility for licensure to practice as a registered nurse in the state of Florida

For application materials:

http://www.nursing.ufl.edu/prospective/prospective_msn_application_process.shtml

Degrees

Master of Science in Nursing

without a concentration

College of Nursing Courses

- NGR 5934: Cultural Influences on Health Care
- NGR 6002C: Advanced Health Assessment
- NGR 6006: Principles of Clinical Outcomes Management
- NGR 6054C: Advanced Neonatal Health Assessment and Diagnostic Reasoning
- NGR 6052C: Adult Nursing: Diagnostics and Procedures
- NGR 6101: Theory and Research for Nursing
- NGR 6140: Physiology and Pathophysiology for Advanced Nursing Practice
- NGR 6172: Pharmacotherapeutics for Advanced Practice Nursing
- NGR 6892: Health Care Policy and Organizational Delivery
- NGR 6230C: Acute Care Nurse Practitioner: Diagnostics and Procedures for the Critically Ill

- NGR 6240: Primary Care for Adults
- NGR 6241: Adult Nursing: Common Health Problems
- NGR 6241L: Adult Nurse Practitioner: Common Health Problems Laboratory
- NGR 6243: Acute Care Nurse Practitioner: Critically Ill Adult
- NGR 6243L: Acute Care Nurse Practitioner: Critically Ill Adult Laboratory
- NGR 6244: Adult Nursing: Chronic Health Problems
- NGR 6244L: Adult Nurse Practitioner: Chronic Health Problems Laboratory
- NGR 6247: Complex High Prevalence Illnesses Of Adults
- NGR 6247L: Complex High Prevalence Illnesses Of Adults
- NGR 6248: Adult Acute Care Nurse Practitioner 3
- NGR 6248L: Adult Acute Care Nurse Practitioner 3
- NGR 6255: Advanced Nursing Care of Older Adult
- NGR 6301: Advanced Child Health Nursing I
- NGR 6301L: Advanced Child Health Nursing I
- NGR 6302: Advanced Child Health Nursing II
- NGR 6302L: Advanced Child Health Nursing II
- NGR 6307: Advanced Child Health Nursing III
- NGR 6307L: Advanced Child Health Nursing III
- NGR 6320C: Neonatal Care I
- NGR 6321C: Neonatal Care II
- NGR 6323C: Neonatal Care III
- NGR 6350: Family Nurse Practitioner: Women, Adolescents, And Children
- NGR 6350L: Family Nurse Practitioner: Women, Adolescents, And Children
- NGR 6360C: Nurse-Midwifery Care I
- NGR 6361C: Nurse-Midwifery Care II
- NGR 6364: Seminar: The Nurse Midwife
- NGR 6371: Pharmacotherapeutics for Advanced Neonatal Nursing
- NGR 6372C: Advanced Pediatric Procedures and Diagnostics
- NGR 6500C: Individual and Family Therapy for Psychiatric-Mental Health Nursing
- NGR 6501C: Group Therapy and Community Interventions for Psychiatric-Mental Health Nursing
- NGR 6538: Psychopharmacology for Psychiatric Nursing
- NGR 6612: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
- NGR 6612L: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
- NGR 6636: Wellness Promotion and Disease Prevention
- NGR 6726: Management of the Care Environment II
- NGR 6727: Management of the Care Environment I
- NGR 6740: Role Transition: Issues in Advanced Practice Nursing
- NGR 6770: Leadership/Role of Clinical Nurse Leader
- NGR 6771: Clinical Nurse Leader Role Seminar
- NGR 6773: Clinical Nurse Leader Residency/Internship
- NGR 6815: Foundations of Qualitative Research in Nursing
- NGR 6840: Applied Statistical Analysis I
- NGR 6845: Applied Statistical Analysis II
- NGR 6850: Research Methods and Utilization for Nursing
- NGR 6905: Individual Study
- NGR 6941: Practicum in Nursing
- NGR 6930: Special Topics in Nursing
- NGR 6944: Individual Clinical Practice
- NGR 6970: Research for Master's Project
- NGR 6971: Research for Master's Thesis
- NGR 7176: Advanced Topics in Pharmacotherapeutics in Nursing
- NGR 7816: Quantitative Research Design and Measurement in Nursing
- NGR 7003: Advanced Diagnostic Reasoning
- NGR 7115: Philosophy of Nursing Science
- NGR 7124: Theory Development in Nursing
- NGR 7700: Leadership and Role Development in Advanced Nursing Practice
- NGR 7709: Nurse Scientist and Scholar I
- NGR 7814: Field Methods for Health Related Research
- NGR 7827: Outcomes Research and Evaluation
- NGR 7831: Quality Indicators in Nursing Systems
- NGR 7835: Nurse Scientist and Scholar II
- NGR 7871: Nursing Informatics and Data
- NGR 7882: Ethical Theories and Rational Decision Making in Health
- NGR 7891: Health Policy and Finance in Advanced Nursing Practice
- NGR 7940L: Residency in Advanced Nursing Practice
- NGR 7970L: Advanced Nursing Project
- NGR 7979: Advanced Research
- NGR 7980: Research for Doctoral Dissertation

Nursing Sciences

College

[College of Nursing](#)

Nursing Sciences Program

Chairs: S. Schaffer, M.J. Snider, and J. Stechmiller

Graduate Coordinator: J. Ballantyne

Complete faculty listing by department: [Follow this link.](#)

For more information about the Master of Science in Nursing and the Doctor of Nursing Practice, please visit [Graduate Degrees](#) or <http://www.nursing.ufl.edu>.

The College's Ph.D. program prepares scientists, scholars, advanced practitioners, and leaders in nursing. Comprehensive research and practice preparation is achieved by pairing students with faculty. Students have access to an array of faculty members for interdisciplinary study, clinical practice, and research. Individually directed dissertation research is a major aspect of the Ph.D. program. Research in the College includes aging and health, women's health, bio-behavioral interventions, and health policy.

Progression in the program depends on the student's ability to meet academic standards and clinical competencies as defined by College policy.

To be considered for admission to the Ph.D. program, students must meet the following minimum requirements:

- A BSN or master's degree in nursing from a CCNE/NLN AC accredited program.
- A master's program GPA of 3.5 on a 4.0 scale and a score of 500 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination (GRE) General Test. In the current version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section.

OR

- A master's program GPA of 3.2 on a 4.0 scale and a score of 600 or higher on each of the verbal and quantitative sections in the prior version of the Graduate Record Examination General Test. In the current version of the GRE a score a minimum score of 160 in the verbal section and 148 in the quantitative section.

- Completion of the GRE analytical section

- Eligibility for licensure to practice as a registered nurse in the state of Florida

A personal interview is preferred to establish a Graduate Faculty mentor who will work with the student to individualize the academic program and to structure the student's research or practice focus.

You may also call 352-273-6331 for more information.

Degrees

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

College of Nursing Courses

- NGR 5934: Cultural Influences on Health Care
- NGR 6002C: Advanced Health Assessment
- NGR 6006: Principles of Clinical Outcomes Management
- NGR 6054C: Advanced Neonatal Health Assessment and Diagnostic Reasoning
- NGR 6052C: Adult Nursing: Diagnostics and Procedures
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- NGR 6350L: Family Nurse Practitioner: Women, Adolescents, And Children
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- NGR 6364: Seminar: The Nurse Midwife
- NGR 6371: Pharmacotherapeutics for Advanced Neonatal Nursing
- NGR 6372C: Advanced Pediatric Procedures and Diagnostics
- NGR 6500C: Individual and Family Therapy for Psychiatric-Mental Health Nursing
- NGR 6501C: Group Therapy and Community Interventions for Psychiatric-Mental Health Nursing
- NGR 6538: Psychopharmacology for Psychiatric Nursing
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- NGR 6612L: Family Nurse Practitioner: Complex Family Health Care (Focus On Gerontology)
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- NGR 6740: Role Transition: Issues in Advanced Practice Nursing
- NGR 6770: Leadership/Role of Clinical Nurse Leader
- NGR 6771: Clinical Nurse Leader Role Seminar
- NGR 6773: Clinical Nurse Leader Residency/Internship
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- NGR 6840: Applied Statistical Analysis I
- NGR 6845: Applied Statistical Analysis II
- NGR 6850: Research Methods and Utilization for Nursing
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- NGR 7003: Advanced Diagnostic Reasoning
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- NGR 7814: Field Methods for Health Related Research
- NGR 7827: Outcomes Research and Evaluation
- NGR 7831: Quality Indicators in Nursing Systems
- NGR 7835: Nurse Scientist and Scholar II
- NGR 7871: Nursing Informatics and Data
- NGR 7882: Ethical Theories and Rational Decision Making in Health
- NGR 7891: Health Policy and Finance in Advanced Nursing Practice
- NGR 7940L: Residency in Advanced Nursing Practice
- NGR 7970L: Advanced Nursing Project
- NGR 7979: Advanced Research
- NGR 7980: Research for Doctoral Dissertation

College of Pharmacy

Dean: J. Johnson

Complete faculty listings: [Follow this link.](#)

The College of Pharmacy offers the Doctor of Philosophy and the Master of Science in Pharmacy degrees in the pharmaceutical sciences, with concentrations in medicinal chemistry, pharmacodynamics, pharmaceutical outcomes and policy, and pharmacy which includes pharmaceuticals. There are two additional concentrations in the Master of Science in Pharmacy program in pharmaceutical sciences: forensic drug chemistry, and forensic serology and DNA. Both offered in a distance-learning, nonthesis format. Complete descriptions of the minimum requirements for the M.S.P. and Ph.D. degrees are provided in the [Graduate Degrees](#) section of this catalog.

The Graduate Faculty and courses offered are listed under department headings in this catalog. The courses listed below consist of seminar, supervised teaching and research, and research for thesis or doctoral dissertation. These courses are offered in each of the departments.

Students who wish to pursue graduate studies in the College of Pharmacy must have an undergraduate degree in pharmacy, chemistry, biology, or related sciences.

Satisfactory completion of a thesis or dissertation based on research is a requirement for a graduate degree in the pharmaceutical sciences.

Inquiries regarding applications and general information about the graduate programs are processed through the

Office of Research and Graduate Studies,
College of Pharmacy,
P.O. Box 100484,
Health Science Center.

For more information, please see our website: <http://pharmacy.ufl.edu>.

[Departments and Programs within the College of Pharmacy](#)

[College of Pharmacy Courses](#)

Other

Pharmaceutical Sciences (Medicinal Chemistry)

College

[College of Pharmacy](#)

Department/School

[Medicinal Chemistry Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Medicinal Chemistry

optional second concentration in Clinical and Translational Science

concentration in Toxicology

Master of Science in Pharmacy

concentration in Pharmaceutical Chemistry

concentration in Medicinal Chemistry

concentration in Forensic Serology and DNA

concentration in Forensic Science

concentration in Forensic Drug Chemistry

concentration in Clinical Toxicology

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics

- PHA6899: Advanced OB/GYN and Pediatric Pharmacoeconomics
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmaceutical Sciences (Pharmaceutical Outcomes and Policy)

College

[College of Pharmacy](#)

Department/School

[Pharmaceutical Outcomes and Policy Department](#)

Pharmaceutical Outcomes and Policy Program Information

The Department offers the Master of Science in Pharmacy and Doctor of Philosophy degrees in pharmaceutical sciences with a concentration in pharmaceutical outcomes and policy. Requirements for the M.S.P. degree are the same as for the Master of Science degree.

Research in the Department emphasizes the epidemiological, socio-behavioral, administrative, regulatory, and economic aspects of drug therapy and pharmaceutical services, including assessment of safety, effectiveness, efficiency and quality aspects of patient-oriented pharmaceutical services and medication use.

The department offers both a research-oriented residential M.S.P. and Ph.D. degree programs as well as an online M.S.P. program. For the research oriented degree programs, graduate studies include core curricula and four specializations in patient safety and program evaluation, pharmacoeconomics, pharmacoepidemiology and social-behavioral research in medication use. Electives and required courses draw from the resources of the entire University. Graduates are prepared for leadership positions in academia, public service, pharmaceutical industry, and health service industry with a focus on the evaluation of drugs and related services.

The online non-thesis M.S.P. program is designed for working professionals, and focuses on pharmaceutical regulation and outcomes. Prior pharmacy experience/knowledge is not required and the program is available to persons located in the United States only. Coursework is delivered in both asynchronous and live, synchronous sessions. Students may choose among six specialty tracks including Pharmacy Regulation & Policy, Applied Pharmacoeconomics, Drug Regulatory Affairs, Clinical Research Regulation in Pharmacy, Patient Safety & Medication Risk Management, and Institutional Pharmacy Leadership.

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Pharmaceutical Outcomes and Policy

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

concentration in Medication Therapy Management

concentration in Pharmaceutical Outcomes and Policy

Pharmaceutical Outcomes and Policy Courses

- PHA 5270: Health Care and Patient Safety
- PHA 5271: Health Care Risk Management
- PHA 5272: Risk Management, Liability and Compliance
- PHA 6227: Institutional Pharmacy Leadership I
- PHA 6228: Institutional Pharmacy Leadership II
- PHA 6235: Advanced Pharmaceutical Law
- PHA 6236: Health Sciences Liability Law
- PHA 6250: Patient Responsibility in Health Care
- PHA 6264: Pharmacoeconomics and Health Technology Assessment
- PHA 6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA 6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA 6268: Pharmacoepidemiology and Patient Safety

- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
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- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
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- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
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- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery

- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmaceutical Sciences (Pharmaceutics)

College

[College of Pharmacy](#)

Department/School

[Pharmaceutics Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

concentration in Pharmacy

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

without a concentration

concentration in Pharmacy

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
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- PHA6170C: Pharmaceutical Product Formulation
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- PHA6440: Seminar in Drug Discovery
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- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology

- PHA6557: Clinical Toxicology 1
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research
- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmaceutical Sciences (Pharmacodynamics)

College

[College of Pharmacy](#)

Department/School

[Pharmacodynamics Department](#)

Pharmacodynamics Programs

The Department of Pharmacodynamics offers the Doctor of Philosophy in the pharmaceutical sciences with a concentration in pharmacodynamics. The Department participates in the interdisciplinary toxicology concentration (see Interdisciplinary Graduate Studies in this catalog). Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required. In addition to graduate courses in pharmacy, courses are taken in the College of Medicine and in statistics in the College of Liberal Arts and Sciences.

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Pharmacodynamics

optional second concentration in Clinical and Translational Science

Master of Science in Pharmacy

concentration in Pharmacodynamics

Pharmacodynamics Courses

- PHA5531: Neurotoxicology
- PHA6508: Systems Physiology and Pathophysiology I
- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II
- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
- PHA6289: Regulating Clinical Research
- PHA6290: Pharmaceutical Fraud and Abuse
- PHA6291: Pharmaceutical Health Care Systems
- PHA6717: Measurement in Pharmacy Administration Research

- PHA6793: Evidentiary Basis of Pharmaceutical Use
- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
- PHA6416: Pharmaceutical Analysis I
- PHA6427: Pharmacogenetics of Drug Metabolism
- PHA6440: Seminar in Drug Discovery
- PHA6449: Pharmacogenomics
- PHA6630: Medication Therapy Management: A Hematologic Focus
- PHA6631: Foundations of Medication Therapy Management I
- PHA6632: Foundations of Medication Therapy Management II
- PHA6633: Medication Therapy Management: A Cardiovascular Focus
- PHA6634: Medication Therapy Management: An Endocrine Focus
- PHA6635: Medication Therapy Management: A Renal Focus
- PHA6636: Medication Therapy Management: A Gastrointestinal Focus
- PHA6637: Medication Therapy Management: A Psychiatric Focus
- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6806: Pharmacoeconomic Modeling
- PHA6910: Supervised Research
- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

Pharmaceutical Sciences (Pharmacotherapy and Translational Research)

Description to be added

College

[College of Pharmacy](#)

Department/School

[Pharmacotherapy and Translational Research Department](#)

Degrees Offered With a Major in Pharmaceutical Sciences

Doctor of Philosophy

concentration in Clinical Pharmaceutical Sciences

Master of Science in Pharmacy

concentration in Clinical Pharmacy

Medicinal Chemistry Courses

- PHA5475: Synthesis of Prodrugs
- PHA6115: Equilibria, Complexations, and Interactions of Drugs
- PHA6354: Natural Medicinal Products
- PHA6356: Structure Determination of Complex Natural Products
- PHA6357: Herbal & Dietary Supplements
- PHA6417: Pharmaceutical Analysis II
- PHA6425: Drug Biotrans and Molecular Mechanisms of Toxicity
- PHA6432: Fundamentals of Pharmaceutical Chemistry
- PHA6444: Pharmaceutical Chemistry I
- PHA6447: Drug Design
- PHA6448: High Throughput Drug Discovery
- PHA6471: Synthetic Medicinal Chemistry
- PHA6534: Toxicology of Chemical Weapons
- PHA6535: Principles of Nucleotide Activity
- PHA6543: Pharmaceutical Chemistry II
- PHA6556: Introduction to Clinical Toxicology
- PHA6557: Clinical Toxicology I
- PHA6840: Medicinal Chemistry of Drugs of Abuse
- PHA6850: Principles of Forensic Science
- PHA6851: Forensic Analysis of DNA
- PHA6853: Biological Evidence and Serology
- PHA6854: Forensic Immunology
- PHA6855: Forensic Genetics
- PHA6856: Blood Spatter and Distribution
- PHA6905C: Research Procedures in Medicinal Chemistry
- PHA6934: Seminar in Medicinal Chemistry
- PHA6852: Mammalian Molecular Biology
- VME 6602: General Toxicology
- VME 6605: Toxic Substances
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control

Pharmaceutical Outcomes and Policy Courses

- PHA5270: Health Care and Patient Safety
- PHA5271: Health Care Risk Management
- PHA5272: Risk Management, Liability and Compliance
- PHA6227: Institutional Pharmacy Leadership I
- PHA6228: Institutional Pharmacy Leadership II

- PHA6235: Advanced Pharmaceutical Law
- PHA6236: Health Sciences Liability Law
- PHA6250: Patient Responsibility in Health Care
- PHA6264: Pharmacoeconomics and Health Technology Assessment
- PHA6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA6268: Pharmacoepidemiology and Patient Safety
- PHA6269: Pharmaceutical Products and Public Policy
- PHA6273: Structure, Process, and Outcomes of Regulation
- PHA6274: Federal Regulations of Drugs and Pharmacy
- PHA6275: Federal Regulations of Controlled Substances
- PHA6276: Regulating Pharmaceutical Access and Costs
- PHA6277: Ethics in Drug Development Production and Use
- PHA6278: State Regulation of Drugs and Pharmacy
- PHA6279: Pharmaceutical Outcomes and Policy Seminar
- PHA6280: Medicare and Medicaid
- PHA6281: Practices and Procedures of Administrative Agencies
- PHA6286: Pharmaceutical Microeconomics
- PHA6287: Pharmaceutical Health Economics
- PHA6288: Critical Review of Research Methods
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- PHA6290: Pharmaceutical Fraud and Abuse
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- PHA6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA6798: The Use and Abuse of Statistics in Drug Regulation
- PHA6799: Patient Safety Program Evaluation
- PHA6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA6860: Prevention of Pharmaceutical Crimes
- PHA6891: Introduction to Pharmacoepidemiology
- PHA6892: Practices and Procedures of the IRB
- PHA6893: Research Ethics
- PHA6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA6937: Topics in Pharmaceutical Administration
- PHA6206: Introduction to Pharmaceutical Microeconomics
- PHA6282: Pharmaceutical Policy Process
- PHA6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- PHA6116: In Vivo and In Vitro Stability of Drugs
- PHA6118: Molecular Diversity
- PHA6125: Pharmacokinetics and Biopharmaceutics
- PHA6170C: Pharmaceutical Product Formulation
- PHA6183: Pharmaceutical Gene Delivery
- PHA6185: Pharmaceutical Drug Development
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- PHA6440: Seminar in Drug Discovery
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- PHA6638: Medication Therapy Management: A Neurologic Focus
- PHA6639: Medication Therapy Management: A Respiratory Focus
- PHA6894: Introduction to Graduate Studies
- PHA6896: Preclinical Drug Evaluation

Pharmacodynamics Courses

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- PHA6509: Systems Physiology and Pathophysiology II
- PHA6512L: Experiential Research Training in Pharmacodynamics
- PHA6521C: Research Techniques in Pharmacodynamics
- PHA6522L: ICBR Molecular Techniques Laboratory
- PHA6540: Neurochemical Foundation of Pharmacodynamics
- PHA7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
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College of Pharmacy Courses

- PHA5171: Pharmaceutical Biotechnology
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- PHA6806: Pharmacoeconomic Modeling
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- PHA6935: Selected Topics in Pharmacy
- PHA6936: Advanced Topics in Pharmaceutical Sciences
- PHA6938: Research Seminar
- PHA6940: Supervised Teaching
- PHA6971: Research for Master's Thesis
- PHA7979: Advanced Research
- PHA7980: Research for Doctoral Dissertation

College of Public Health and Health Professions

Dean: Michael G. Perri

Executive Associate Dean: Stephanie L. Hanson

Complete faculty listings: [Follow this link.](#)

The University of Florida College of Public Health and Health Professions has established a new educational model that focuses on the integration of public health problem-solving and individual patient care. The college's mission is to preserve, promote and improve the health and well-being of populations, communities and individuals. To fulfill this mission, we foster collaborations among public health and the health professions in education, research and service.

For more information, please see our website: <http://phhp.ufl.edu>

[Departments and Programs within the College of Public Health and Health Professions](#)

[College of Public Health and Health Professions Courses](#)

Other

Audiology

College

[College of Public Health and Health Professions](#)

Department/School

[Speech, Language and Hearing Sciences Department](#)

Degrees Offered with a Major in Audiology

Doctor of Audiology

Speech, Language and Hearing Sciences Departmental Courses

- ASL 5406: Manual Communication with the Hearing Impaired
- LAE 6505: Applied Preschool Language Disorders: Diagnosis and Treatment
- LIN 5741: Applied English Grammar
- SPA 5051: Clinical Observation in Audiology
- SPA 5102: Auditory Anatomy and Physiology
- SPA 5128: Speech Perception
- SPA 5204: Phonological Disorders
- SPA 5211: Voice Disorders
- SPA 5225: Principles of Speech Pathology: Stuttering

- SPA5245: Communicative Disorders Related to Cleft Palate
- SPA5254: Neurocognitive Language Disorders
- SPA5304: Principles of Audiological Evaluation
- SPA5315: Peripheral and Central Auditory Disorders
- SPA5401: Speech Pathology Language Disorder
- SPA5405: Language Disorders II
- SPA5553: Instrumentation and Diagnosis in Speech-Language Pathology
- SPA5563: Psychosocial Aspects of Hearing Loss
- SPA5646: Speech and Language of the Deaf and Hard of Hearing
- SPA6008: Medical Aspects of Speech-Language Pathology
- SPA6010: Basic Auditory Sciences
- SPA6117: Science of Singing
- SPA6133L: Hearing Aid Analysis Laboratory
- SPA6207: Applied Phonological Disorders: Diagnosis and Treatment
- SPA6211: Applied Voice Disorders: Diagnosis and Treatment
- SPA6217: Vocal Health and Habilitation
- SPA6229: Applied Fluency Disorders: Diagnosis and Treatment
- SPA6233: Speech Motor Control Disorders
- SPA6270: Auditory Processing Disorders
- SPA6805: Introduction to Graduate Research
- SPA6305: Pediatric Audiology
- SPA6311: Medical Audiology
- SPA6312: Advanced Audiology and Neuro-Otology
- SPA6317: Vestibular Disorders
- SPA6323: Audiologic Rehabilitation for Adults
- SPA6324: Audiologic Rehabilitation for Children
- SPA6340: Amplification I
- SPA6341: Amplification II
- SPA6342: Amplification III
- SPA6390: Proseminar: Speech-Language Pathology and Audiology
- SPA6410: Adult Language Disorders
- SPA6416: Applied Neurogenic Disorders: Diagnosis and Treatment
- SPA6430: Applied Developmental Disorders: Diagnosis and Treatment in Speech and Language
- SPA6436: Issues in Autism Spectrum Disorders
- SPA6506: Clinical Clerkship in Audiology
- SPA6507: Applied Augmentative and Alternative Communication
- SPA6521: Practicum in Speech-Language Diagnostics: UFSHC
- SPA6524: Practicum in Speech-Language Therapy: UFSHC
- SPA6531: Clinical Practice in Hearing Assessment
- SPA6533: Clinical Practice in Aural Rehabilitation
- SPA6559: Alternative and Augmentative Communication
- SPA6564: Communication and Aging
- SPA6565: Seminar in Dysphagia
- SPA6568: Clinical Evaluation in Medical Speech-Language Pathology
- SPA6570: Seminar: Professional Aspects of Speech-Language Pathology
- SPA6581: Special Clinical
- SPA6830: Communication Disorders in Medically Complex Pediatric Populations
- SPA6905: Individual Study
- SPA6910: Supervised Research
- SPA6930: Proseminar in Speech-Language Pathology and Audiology
- SPA6935: Applied Reading Disabilities: Diagnosis and Treatment
- SPA6936: Special Topics
- SPA6940: Supervised Teaching
- SPA6942: Externship in Speech-Language Pathology
- SPA6971: Research for Master's Thesis
- SPA7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions
- SPA7306: Audiologic Assessment in a Medical Setting
- SPA7318: Clinical Auditory Electrophysiology
- SPA7319: Balance Disorders: Evaluation and Treatment
- SPA7325: Audiologic Rehabilitation
- SPA7343: Cochlear Implants and Assistive Devices
- SPA7348: Principles of Amplification
- SPA7353: Environmental Hearing Conservation
- SPA7354: Seminar in Audiology: Hearing Conservation and Noise Control
- SPA7391: Business and Professional Issues in Audiology
- SPA7415: Neurolinguistics of Adult Language Disorders
- SPA7500: Public School Practicum
- SPA7523: Practicum in Speech Pathology in a Medical/Dental Setting
- SPA7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders
- SPA7566: Counseling Individuals with Hearing Losses
- SPA7833: Audiology Research Project
- SPA7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities
- SPA7945: Graduate Practicum in Audiology
- SPA7946: Clinical I: Practicum in Medical Speech and Language Pathology
- SPA7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology
- SPA7958: Clinical Externship
- SPA7979: Advanced Research
- SPA7980: Research for Doctoral Dissertation

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics

- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
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- PHC 6194: Spatial Epidemiology
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- PHC 6317: Risk Communication for Public Health Practice
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- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
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- PHC 6447: Ecology of HIV/Aids in the Rural South
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- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
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- PHT 6127C: Control of Gait and Posture
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- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation

- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Biostatistics (PHHP)

College

[College of Public Health and Health Professions](#)

[College of Medicine](#)

Department

[Biostatistics Department](#)

Biostatistics Program

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/phd-in-biostatistics/>.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website <http://biostat.ufl.edu/education/ms-in-biostatistics/>.

Degrees

Doctor of Philosophy

Master of Science

Biostatistics Departmental Courses

- GMS 6818: Design and Conduct Clinical Trials I
- GMS 6819: Design and Conduct Clinical Trials II
- GMS 6827: Advanced Clinical Trial Methods
- GMS 6841: Design and Analysis of Translational Research in Biomedical Sciences
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6020: Clinical Trial Methods
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6050C: Biostatistical Methods I
- PHC 6051: Biostatistical Methods II
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
- PHC 6080: SAS for Public Health - Data
- PHC 6081: SAS for Public Health - Analysis
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6937: Special Topics in Public Health
- PHC 6946: Public Health Internship
- PHC 7013: Bias in Observational Research
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7925: Biostatistics Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- STA 5223: Applied Sample Survey Methods
- STA 5325: Fundamentals of Probability
- STA 5328: Fundamentals of Statistical Theory
- STA 5503: Categorical Data Methods
- STA 5701: Applied Multivariate Methods
- STA 5715: Applied Survival Analysis
- STA 6092: Applied Statistical Practice
- STA 6166: Statistical Methods in Research I
- STA 7249: Generalized Linear Models
- STA 7346: Statistical Inference

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
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- PHT 6127C: Control of Gait and Posture
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- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
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- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
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- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work

- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Communication Sciences and Disorders

College

[College of Public Health and Health Professions](#)

Department/School

[Speech, Language and Hearing Sciences Department](#)

Degrees Offered with a Major in Communication Sciences and Disorders

Doctor of Philosophy

Master of Arts

Speech, Language and Hearing Sciences Departmental Courses

- ASL 5406: Manual Communication with the Hearing Impaired
- LAE 6505: Applied Preschool Language Disorders: Diagnosis and Treatment
- LIN 5741: Applied English Grammar
- SPA 5051: Clinical Observation in Audiology
- SPA 5102: Auditory Anatomy and Physiology
- SPA 5128: Speech Perception
- SPA 5204: Phonological Disorders
- SPA 5211: Voice Disorders
- SPA 5225: Principles of Speech Pathology: Stuttering
- SPA 5245: Communicative Disorders Related to Cleft Palate
- SPA 5254: Neurocognitive Language Disorders
- SPA 5304: Principles of Audiological Evaluation
- SPA 5315: Peripheral and Central Auditory Disorders
- SPA 5401: Speech Pathology Language Disorder
- SPA 5405: Language Disorders II
- SPA 5553: Instrumentation and Diagnosis in Speech-Language Pathology
- SPA 5563: Psychosocial Aspects of Hearing Loss
- SPA 5646: Speech and Language of the Deaf and Hard of Hearing
- SPA 6008: Medical Aspects of Speech-Language Pathology
- SPA 6010: Basic Auditory Sciences
- SPA 6117: Science of Singing
- SPA 6133L: Hearing Aid Analysis Laboratory
- SPA 6207: Applied Phonological Disorders: Diagnosis and Treatment
- SPA 6211: Applied Voice Disorders: Diagnosis and Treatment
- SPA 6217: Vocal Health and Habilitation
- SPA 6229: Applied Fluency Disorders: Diagnosis and Treatment
- SPA 6233: Speech Motor Control Disorders
- SPA 6270: Auditory Processing Disorders
- SPA 6805: Introduction to Graduate Research
- SPA 6305: Pediatric Audiology
- SPA 6311: Medical Audiology
- SPA 6312: Advanced Audiology and Neuro-Otology
- SPA 6317: Vestibular Disorders
- SPA 6323: Audiologic Rehabilitation for Adults
- SPA 6324: Audiologic Rehabilitation for Children
- SPA 6340: Amplification I
- SPA 6341: Amplification II
- SPA 6342: Amplification III
- SPA 6390: Proseminar: Speech-Language Pathology and Audiology
- SPA 6410: Adult Language Disorders
- SPA 6416: Applied Neurogenic Disorders: Diagnosis and Treatment

- SPA6430: Applied Developmental Disorders: Diagnosis and Treatment in Speech and Language
- SPA6436: Issues in Autism Spectrum Disorders
- SPA6506: Clinical Clerkship in Audiology
- SPA6507: Applied Augmentative and Alternative Communication
- SPA6521: Practicum in Speech-Language Diagnostics: UFSHC
- SPA6524: Practicum in Speech-Language Therapy: UFSHC
- SPA6531: Clinical Practice in Hearing Assessment
- SPA6533: Clinical Practice in Aural Rehabilitation
- SPA6559: Alternative and Augmentative Communication
- SPA6564: Communication and Aging
- SPA6565: Seminar in Dysphagia
- SPA6568: Clinical Evaluation in Medical Speech-Language Pathology
- SPA6570: Seminar: Professional Aspects of Speech-Language Pathology
- SPA6581: Special Clinical
- SPA6830: Communication Disorders in Medically Complex Pediatric Populations
- SPA6905: Individual Study
- SPA6910: Supervised Research
- SPA6930: Proseminar in Speech-Language Pathology and Audiology
- SPA6935: Applied Reading Disabilities: Diagnosis and Treatment
- SPA6936: Special Topics
- SPA6940: Supervised Teaching
- SPA6942: Externship in Speech-Language Pathology
- SPA6971: Research for Master's Thesis
- SPA7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions
- SPA7306: Audiologic Assessment in a Medical Setting
- SPA7318: Clinical Auditory Electrophysiology
- SPA7319: Balance Disorders: Evaluation and Treatment
- SPA7325: Audiologic Rehabilitation
- SPA7343: Cochlear Implants and Assistive Devices
- SPA7348: Principles of Amplification
- SPA7353: Environmental Hearing Conservation
- SPA7354: Seminar in Audiology: Hearing Conservation and Noise Control
- SPA7391: Business and Professional Issues in Audiology
- SPA7415: Neurolinguistics of Adult Language Disorders
- SPA7500: Public School Practicum
- SPA7523: Practicum in Speech Pathology in a Medical/Dental Setting
- SPA7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders
- SPA7566: Counseling Individuals with Hearing Losses
- SPA7833: Audiology Research Project
- SPA7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities
- SPA7945: Graduate Practicum in Audiology
- SPA7946: Clinical I: Practicum in Medical Speech and Language Pathology
- SPA7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology
- SPA7958: Clinical Externship
- SPA7979: Advanced Research
- SPA7980: Research for Doctoral Dissertation

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
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- HSC 6939: Special Topics
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- PHC 6317: Risk Communication for Public Health Practice
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- PHT 6127C: Control of Gait and Posture
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- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
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- RSD 6112: Rehabilitation Science Theory and Application II
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- RSD 6706: Scientific Writing for the Rehabilitation Professional
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- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
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- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Environmental and Global Health (M.H.S. - One Health)

College

[College of Public Health and Health Professions](#)

Department

[Environmental and Global Health Department](#)

Degrees Offered With a Major in Environmental and Global Health

Master of Health Science

concentration in One Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
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- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South

- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Epidemiology (PHHP)

College

[College of Public Health and Health Professions](#)

Department

[Epidemiology Department](#)

Epidemiology Program Information

The **Ph.D. in Epidemiology program** is in the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The program requires a minimum of 90 semester credits beyond the bachelor's degree. All students must complete a minimum of 9 credits in Epidemiology foundation course work, at least 36 credits of epidemiology core courses, 6 credits of statistics electives, 18 credits of epidemiology electives, 15 credits of general electives, and 12 credits of dissertation research. Students must also complete at least two mentored teaching experiences. All entering students who do not hold MPH or equivalent degrees are also required by the College of Public Health and Health Professions to complete an Introduction to Public Health course.

Students in the Ph.D. program in Epidemiology are admitted to work with a research mentor on that mentor's project, and that research mentor funds the student. Other funding sources are available such as the Graduate School and the Department.

The core course work is designed to incorporate competencies recommended in the report of the 2002 workshop on doctoral education in epidemiology from the American College of Epidemiology and the Association of Schools and Programs of Public Health, and criteria for applied epidemiology competencies. The overall outcomes expected of all graduates are as follows:

1. Apply epidemiological methods to address critical and/or emerging public health issues through the use of:
 - Appropriate epidemiological research designs
 - Advanced statistical analysis methods for health studies
 - Data structures and measurement methods for health research
 - Biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being
 - Depth of knowledge in an area of specialization
2. Assimilate the history, philosophy, and ethical principles of epidemiology into current research
3. Develop grant proposals and manage research projects
4. Write scientific papers for publication in peer-reviewed journals, and communicate research results to scientists, policy makers, and the public
5. Compete successfully for research and teaching positions in academic institutions, federal or state agencies, or private institutions.

Details of the Ph.D. in Epidemiology program and application information are available at our website: <http://epidemiology.phhp.ufl.edu/about/ph-d-in-epidemiology-2>.

The **Master of Science in Epidemiology** degree is offered by the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The 36 credit program prepares students for careers in the public health arena that are focused on the surveillance and prevention of illnesses among diverse populations around the world. Students are trained in the foundational aspects of epidemiology including person, place and time, risk and protective factors, and the social determinants of health. Areas of focus include: chronic disease, infectious disease, geriatric, environmental, psychiatric, social, cancer and maternal and child health epidemiology.

Graduates of the M.S. in Epidemiology program are trained to:

- Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to areas of interest,
- Choose appropriate measurement and analytic methods to study health and disease in a population,
- Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health.

The program consists of required coursework and the successful completion of a thesis. The thesis is required to demonstrate skill in independent inquiry and investigation, under the tutelage of a mentor. Students may complete the course in three semesters with 36 credits.

More program information, including specific course requirements and elective options, is described at the program website: <http://epidemiology.phhp.ufl.edu/about/masters-of-science-in-epidemiology/mse-curriculum-2>.

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Master of Science

Epidemiology (PHHP/COM) Departmental Courses

- GMS 6820: Advanced Epidemiology Methods
- PHC 6008: Cardiovascular Epidemiology
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6034: Epidemic Investigation
- PHC 6070: Epidemiology of Aging
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7007: Cancer Epidemiology
- PHC 7038: Psychiatric Epidemiology
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7427: Ethics in Population Science
- PHC 7727: Grant Writing for Population Health Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7902: Epidemiology Supervised Research Writing Circle
- PHC 7910: International Field Epidemiology
- PHC 7916: National Field Epidemiology
- PHC 7934: Seminar I: Epidemiology Past, Present, and Future
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
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- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques

- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Health Administration

College

[College of Public Health and Health Professions](#)

Department/School

[Health Services Research, Management, and Policy Department](#)

Health Administration Program Information

The Master of Health Administration (M.H.A.) is a two-year, lock-step program with a summer internship between the first and second years. Small class size permits individual attention and guidance from faculty members. The program prepares qualified individuals motivated by a social mission and responsibility to the community for various management positions in the health services industry. Organizations seek individuals who have the ability to solve business problems and build strategic relationships in a climate of continuous change.

The UF M.H.A. program develops engaged early health care careerists to use evidence-based strategies to improve healthcare quality, affordability, and access. We provide students with fundamental knowledge using a cohort model in a campus-based setting that emphasizes experiential learning and data-driven problem solving both in the classroom and in the practice environment. Students will develop proficiency to detect, analyze, manage and respond to critical administrative issues in both provider and non-provider healthcare organizations. Our program embraces ethical conduct and professionalism, diversity and inclusion, practitioner involvement and team-based learning. Faculty inform practice with research and service to the community.

Applicants from any undergraduate major are considered. For more information about our program and details about the MBA/MHA dual degree, please see our website: <http://hsmp.php.ufl.edu/academic-programs/master-of-health-administration>.

Degrees

Master of Health Administration

Health Administration Program Courses

- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6177: Advanced Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6905: Individual Study in Health Administration
- HSA6939: Capstone Seminar in Health Administration

Health Services Research, Management, and Policy Departmental Courses

- HSA5103: Introduction to the U.S. Health Care System
- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6175: Health Care Financial Management
- HSA6177: Advanced Health Care Finance
- HSA6179: Introduction to Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6197: Information Management in Health Administration
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6858: Internship in Health Services Research
- HSA6878: Externship in Legal Aspects of Health Services Administration
- HSA6905: Individual Study in Health Administration
- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6935: Seminar in Health Administration

- HSA 6939: Capstone Seminar in Health Administration
- HSA 6940: Supervised Teaching
- HSA 6946: Internship in Public Health Management and Policy
- HSA 7106: Seminar in Health Care Access and Utilization
- HSA 7116: Health Services Organizational Research
- HSA 7157: Research Foundations of Health Policy
- HSA 7414: Society, Health, and Medical Care
- HSA 7437: Advanced Health Economics
- HSA 7707: Health Services Research Methods I
- HSA 7708: Health Services Research Methods II
- HSA 7759: Quality and Outcomes in Health Services Research
- HSA 7905: Advanced Individual Study in Health Services Research
- HSA 7936: Seminar in Health Care Costs and Financing
- HSA 7938: Advanced Seminar in Health Services Research
- HSA 7979: Advanced Research
- HSA 7980: Research for Doctoral Dissertation
- PHC 6313: Environmental Health Concepts in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
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- PHC 6153: Public Policy and Aging
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- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
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- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum

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- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Health Services Research

College

[College of Public Health and Health Professions](#)

Department/School

[Health Services Research, Management, and Policy Department](#)

Health Services Research Program Information

The Department of Health Services Research, Management and Policy offers a doctoral degree in Health Services Research. Health services research is a multidisciplinary field of inquiry, both basic and applied, that examines the use, costs, quality, accessibility, delivery, organization, financing, and outcomes of healthcare services. The objective is to increase knowledge and understanding of the structure and processes of the healthcare system, and to assess subsequent effects on individuals and populations. Health services research draws on a variety of disciplines, and integrates their conceptual frameworks and methods to provide new ways of studying and understanding the health care system.

The Ph.D. Program in Health Services Research prepares individuals to conduct inquiry that will inform government officials, corporate leaders, clinicians, health plan managers, and others making decisions about complex health-related problems and issues. Students in the Ph.D. Program in Health Services Research learn to apply research methods and scientific knowledge to the study of health services organizations and systems.

Graduates of the Ph.D. Program in Health Services Research will find career opportunities in academic, private sector, and public service settings. For example, some graduates will combine

research interests with a teaching career and accept academic appointments in a wide range of health-related departments in the nation's colleges and universities. Other graduates will pursue health services research in the context of healthcare delivery and choose employment opportunities with hospitals and health systems, managed care companies, the pharmaceutical industry and consulting firms. Finally, graduates may pursue careers in government or other public service entities (such as private foundations), whose programs are increasingly dependent upon the findings and methodologies of health services research.

For more details about our program, please see our website: <http://hsmp.php.ufl.edu/academic-programs/ph-d-in-health-services-research>.

Degrees

Doctor of Philosophy

Health Services Research Program Courses

- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6940: Supervised Teaching
- HSA7106: Seminar in Health Care Access and Utilization
- HSA7116: Health Services Organizational Research
- HSA7157: Research Foundations of Health Policy
- HSA7414: Society, Health, and Medical Care
- HSA7437: Advanced Health Economics
- HSA7707: Health Services Research Methods I
- HSA7708: Health Services Research Methods II
- HSA7759: Quality and Outcomes in Health Services Research
- HSA7905: Advanced Individual Study in Health Services Research
- HSA7936: Seminar in Health Care Costs and Financing
- HSA7938: Advanced Seminar in Health Services Research
- HSA7979: Advanced Research
- HSA7980: Research for Doctoral Dissertation

Health Services Research, Management, and Policy Departmental Courses

- HSA5103: Introduction to the U.S. Health Care System
- HSA5174: Fundamentals of Health Care Finance
- HSA6105: Professional Skills Seminar
- HSA6114: U.S. Health Care System
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6126: U.S. Health Insurance System
- HSA6152: Overview of U.S. Health Policy
- HSA6175: Health Care Financial Management
- HSA6177: Advanced Health Care Finance
- HSA6179: Introduction to Health Care Finance
- HSA6188: Strategic Management in Health Administration
- HSA6196: Health Services Operations Management
- HSA6197: Information Management in Health Administration
- HSA6198: Information Management in Health Administration
- HSA6342: Human Resource Management for Health Services Managers
- HSA6385: Performance Management for Health Care Managers
- HSA6427: Legal and Ethical Issues in Health Administration
- HSA6436: Health Economics
- HSA6855: Internship in Health Administration
- HSA6858: Internship in Health Services Research
- HSA6878: Externship in Legal Aspects of Health Services Administration
- HSA6905: Individual Study in Health Administration
- HSA6910: Supervised Research
- HSA6911: Research Seminar in Health Services Research
- HSA6930: Special Topics in Health Services Administration
- HSA6935: Seminar in Health Administration
- HSA6939: Capstone Seminar in Health Administration
- HSA6940: Supervised Teaching
- HSA6946: Internship in Public Health Management and Policy
- HSA7106: Seminar in Health Care Access and Utilization
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- HSA7414: Society, Health, and Medical Care
- HSA7437: Advanced Health Economics
- HSA7707: Health Services Research Methods I

- HSA 7708: Health Services Research Methods II
- HSA 7759: Quality and Outcomes in Health Services Research
- HSA 7905: Advanced Individual Study in Health Services Research
- HSA 7936: Seminar in Health Care Costs and Financing
- HSA 7938: Advanced Seminar in Health Services Research
- HSA 7979: Advanced Research
- HSA 7980: Research for Doctoral Dissertation
- PHC 6313: Environmental Health Concepts in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research

- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Occupational Therapy

College

[College of Public Health and Health Professions](#)

Department/School

[Occupational Therapy Department](#)

Occupational Therapy Program Information

The UF Department of Occupational Therapy offers a Masters in Occupational Therapy (MOT). This program prepares students to meet the demands of a highly technological and fast paced American health care system.

The Masters in Occupational Therapy Degree Program is designed for students who do not have an entry-level professional level OT degree. To prepare to enter the Masters in Occupational Therapy program, undergraduate students may complete the University of Florida [Health Science \(BHS\)](#) degree program and the pre-OT track.

Applicants that have earned an undergraduate degree in a program other than UF's Health Science program can enter the MOT program through our [Conditional Graduate program](#).

By completing the Liberal Arts prerequisites for the program, students study the biological, psychological and social systems that impact on the performance of occupational roles. The MOT program provides a strong background in theory, assessment and therapeutic interventions and assists student to develop a strong professional identity.

Students selected from the Health Science/pre-OT track undergraduate program can apply the 6 pre-OT track course toward the MOT requirements for the MOT program. Students who have graduated from the other colleges or universities can be [admitted to the MOT program](#) and complete the 6 pre-OT track courses as part of their graduate program prior to initiating coursework in the Masters in Occupational Therapy Degree Program. The six Health Science [prerequisite courses](#) are offered the Fall and Spring semesters preceding the Summer start of the MOT coursework.

For more information, please see our website: <http://ot.php.ufl.edu/academics/mot/program-description>.

Degrees

Master of Health Science

Master of Occupational Therapy

Occupational Therapy Courses

- OTH 5002: Foundations of Occupational Therapy
- OTH 5115C: Therapeutic Skills II: Areas of Occupation
- OTH 5324: Psychosocial Intervention
- OTH 5435: Therapeutic Skills I
- OTH 5722: Professional Development in Occupational Therapy
- OTH 5726C: Service Delivery and OT Management
- OTH 5770C: Research for Occupational Therapy
- OTH 5812: Practicum I
- OTH 5816: Practicum II
- OTH 5848: Internship I
- OTH 5849: Internship II
- OTH 6008: Neuroscience of Human Occupation
- OTH 6106: Assistive Technology and Occupational Performance
- OTH 6539: Occupational Therapy Theory
- OTH 6635: Principles of Occupational Therapy Screening and Evaluation I
- OTH 6636: Principles of Occupational Therapy Screening and Evaluation II
- OTH 6641: Occupational Therapy Interventions I
- OTH 6642: Occupational Therapy Interventions II
- OTH 6707: OT Manager
- OTH 6708: Issues in Occupational Therapy Practice I
- OTH 6709: Issues in Occupational Therapy Practice II
- OTH 6720: Trends and Issues in Health Care
- OTH 6763: Evidence Based Practice
- OTH 6861: Specialty Internship
- OTH 6905: Individual Work
- OTH 6907: Professional Development Project
- OTH 6933: Special Topics in Occupational Therapy
- OTH 6971: Research for Master's Thesis

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
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- PHT 6615L: Research Instrumentation in Physical Therapy
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- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
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- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching

- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Psychology (Clinical and Health Psychology - PHHP)

College

[College of Public Health and Health Professions](#)

Department/School

[Clinical and Health Psychology Department](#)

Psychology (Clinical and Health Psychology) Program Information

The department of Clinical and Health Psychology is an academic and professional unit in the College of Public Health and Health Professions at the Health Science Center on the University of Florida campus in Gainesville. The doctoral program in clinical psychology has been accredited by the American Psychological Association since 1953 and adheres to the Scientist-Practitioner Model of education and training. The Clinical Psychology Doctoral program is unique in the country in that it is housed in an independent department of Clinical and Health Psychology in a major academic health science setting along with an APA accredited internship. These features foster program strengths in research, teaching and professional training in health care psychology.

To accommodate the broad range of career trajectories possible within Scientist-Practitioner education and training, the program offers a Scientist-Practitioner Emphasis and a Clinical Researcher Emphasis.

The **Scientist-Practitioner Emphasis** allows the student to obtain broad clinical, academic, and research training that readies them for careers anywhere along the science-practice continuum. The student obtains focused research mentorship in a faculty member's laboratory and obtains broad training in clinical assessment and intervention both in and outside of their designated area of concentration.

The **Clinical Researcher Emphasis** is designed to provide the interested student with more intensive mentor-based training for purposes of preparing for a research career. The Clinical Researcher Emphasis is designed for students who are clearly focused on a research career and therefore want an increased opportunity to perform mentored empirical work. This emphasis focuses on the acquisition of research skills, training in scientific methods and technologies to better understand behavior problems, psychopathology and psychological adjustment to illness and wellness, and to develop empirically validated assessment and treatment procedures. The primary goal of the Clinical Researcher emphasis is to train psychologists for academic settings and other employment venues in which research productivity and innovation is a major job expectancy. In comparison to the scientist-practitioner emphasis, more time is dedicated to research (less time is spent in supervised practicum with the general faculty), and advanced clinical training is focused on patient populations and methods in the student's area of research interest. The Clinical Researcher emphasis follows a "mentorship" model in which the faculty mentor is the student's overall guide and supervisor, and the student's primary research training is accomplished in his/her laboratory.

Students can elect the Clinical Researcher emphasis in the first or second year of study, based on their commitment to a clinical research career and the agreement of a faculty mentor. Students can apply for admission consideration to the Scientist-Practitioner emphasis, the Clinical Researcher emphasis, or both (see Application Procedures).

The Doctoral Program provides the student with training in the concepts, tools, roles, and functions of the clinical psychologist. The overall goals of the graduate program are to prepare the student to:

1. investigate meaningful, empirically testable questions in the quest for understanding a behavioral process, a patient's problem, or a professional issue;
2. function as a professional psychologist;
3. practice competently in the applied areas of psychological assessment/diagnosis, intervention/therapy, and consultation; and
4. contribute to the advancement of psychological knowledge through research or other creative scholarly activity.

Through a combination of general and specialized experiences in the classroom, laboratory, and clinic students develop knowledge and skills as scientist-practitioners. Attitudes are developed toward the practice of psychology and toward related professions which enable effective personal interaction and participation in the interdisciplinary approach to problems of research and practice. As students progress in the program, they develop professional identity through acceptance of increased responsibility for professional decisions, through the execution of significant research projects, and through their contributions to the understanding of psychological problems and processes.

For more information please see our website: <http://chp.phhp.ufl.edu>

Degrees

Doctor of Philosophy

concentration in Clinical and Health Psychology

optional second concentration in Clinical and Translational Science

concentration in Clinical and Translational Science

Master of Arts

Master of Science

Clinical and Health Psychology Departmental Courses

- CLP 5316: Health Psychology
- CLP 5426: Introduction to Neuropsychology
- CLP 6304: Psychological Foundations of Clinical Psychology I
- CLP 6307: Human Higher Cortical Functioning
- CLP 6308: Psychological Foundations of Clinical Psychology II
- CLP 6309: Psychological Foundations of Clinical Psychology III
- CLP 6344C: Lifespan Foundations of Behavioral Health and Illness I
- CLP 6345: Lifespan Foundations of Behavioral Health and Illness II
- CLP 6375: Introduction to Clinical Psychology
- CLP 6407: Psychological Treatment I
- CLP 6417: Psychological Treatment II
- CLP 6425: Seminar in Clinical Neuropsychology
- CLP 6430: Clinical Psychological Assessment
- CLP 6434C: Clinical Psychology Assessment I
- CLP 6435C: Clinical Psychology Assessment II
- CLP 6446C: Psychological Assessment of Children
- CLP 6447C: Psychological Assessment of Adults
- CLP 6476: Lifespan Psychopathology
- CLP 6497: Psychopathological Disturbances
- CLP 6527C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology I
- CLP 6528C: Measurement, Research Design, and Statistical Analysis in Clinical Psychology II
- CLP 6529: Applied Multivariate Methods in Psychology
- CLP 6905: Individual Work
- CLP 6910: Supervised Research
- CLP 6940: Supervised Teaching
- CLP 6943: Core Practicum in Clinical Psychology
- CLP 6945: Advanced Practicum in Neuropsychology
- CLP 6946: Advanced Practicum in Applied Medical Psychology
- CLP 6947: Practicum in Intervention
- CLP 6948: Advanced Practicum in Clinical Child Psychology
- CLP 6971: Research for Master's Thesis
- CLP 7317: Advanced Health Psychology and Behavior Medicine
- CLP 7404C: Special Issues, Methods, and Techniques in Psychological Treatment
- CLP 7427C: Neuropsychological Assessment of Children
- CLP 7428C: Neuropsychological Assessment of Adults
- CLP 7934: Special Topics In Clinical Psychology
- CLP 7949: Internship
- CLP 7979: Advanced Research
- CLP 7980: Research for Doctoral Dissertation
- DEP 6216: Psychological Disturbances of Children
- GEY 6306: Interpersonal Communication Within the Aging Network
- GEY 7408: Psychotherapy with Older Adults

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
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- PHC 6011: Epidemiology Methods II
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- PHC 6946: Public Health Internship
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- PHC 7907: Social and Behavioral Science Journal Club
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- PHC 7980: Research for Doctoral Dissertation
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- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom
- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I

- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (M.P.H.)

College

[College of Public Health and Health Professions](#)

Master of Public Health Program Information

Director and Graduate Coordinator: Sarah L. McKune

Complete faculty listing: [Follow this link.](#)

The College of Public Health and Health Professions offers the Master of Public Health degree program through five departments in the college: [Behavioral Science and Community Health](#), [Biostatistics](#), [Epidemiology](#), [Environmental and Global Health](#), and [Health Services Research, Management, and Policy Department](#). This non-thesis program is designed to prepare students to become effective public health practitioners, scientists, and educators.

Students select one of six concentration areas:

- Biostatistics
- Environmental health
- Epidemiology
- Public health management and policy
- Public health practice
- Social and behavioral sciences

Both a 48-credit program for students without terminal health science degrees and a 42-credit program for students with terminal degrees are offered. A combined bachelor's/master of public health program is available, as well as a 15-credit college certificate program. Students interested in collaborative programs may pursue joint M.P.H. and D.V.M., M.D., J.D., Pharm.D., D.P.T., or DMD degrees, or concurrent master's and Ph.D programs. The MPH degree program and the Public Health certificate are available on campus and online. For program descriptions and information on applying, visit the website: www.mph.ufl.edu.

48-credit Master of Public Health: Students who do not hold a terminal degree in a health science discipline are eligible to apply for the 48-credit program. The program provides comprehensive coverage of core public health content and allows selection of a concentration. Students must complete 16 credits of core public health course work, 15-21 credits of concentration core courses, up to 12 credits of elective courses, and 5-8 credits of internship. The course work representing these requirements is described below.

42-credit accelerated Master of Public Health: Students who hold a terminal degree (usually a doctoral degree) in a health science discipline may be eligible for the 42-credit accelerated program. This program requires completion of 16 credits of core public health course work, 21 credits of concentration and elective course work, and a 5-credit internship.

Combined degree program: The College offers a combined degree program to allow qualified undergraduates to earn both a bachelor's degree and the Master of Public Health degree efficiently. Seniors with any undergraduate major are eligible for the combined degree program as long as they have an undergraduate GPA of at least 3.2 and competitive scores on the verbal and quantitative portions of the GRE, and their career interests match the M.P.H. program. Students accepted into the combined degree program complete 15 credits of public health course work while still undergraduates, leaving only 33 credits after admission to graduate school. Students must achieve a B or better in public health courses taken as an undergraduate and be accepted to graduate school to complete the program.

Core Courses: All M.P.H. students take five public health core courses. The core courses in environmental health, epidemiology, public health management and policy, and social and behavioral sciences are taken by all students. The core biostatistics course varies across concentration areas. Students in the biostatistics, environmental health, and epidemiology concentrations must take [PHC 6052: Introduction to Biostatistical Methods](#). All other M.P.H. students must take [PHC 6050: Statistical Methods for Health Sciences Research I](#). In addition, all students must take a 1-credit seminar in contemporary public health issues and 5 to 8 credits of [PHC 6946: Public Health Internship](#).

Internship, major paper, and oral presentation: Each student completes an internship, which provides an opportunity to apply knowledge acquired in the classroom to a real public health problem in a practice setting. The internship is usually completed in the student's final term in the program. Students may engage in many activities during an internship, but each student must have one special project which serves as the basis for a major paper and an oral presentation. The written and oral presentations represent the culmination of the academic experience in the M.P.H. program. Presentations, which are scheduled on Public Health Day near the end of each semester, provide each student with an opportunity to organize and present the details of the special project to faculty, students, and invited guests. Students are expected to display their understanding of their projects in the larger context of public health as a cross-disciplinary field, and in relation to the competencies expected of all M.P.H. graduates. Three faculty members, including the supervisory committee chair, attend each presentation and are responsible for assessing whether the student has successfully demonstrated a broad knowledge of the field of public health and depth in his or her concentration area.

Degrees Offered with a Major of Public Health

Master of Public Health

Master of Public Health - Biostatistics

Master of Public Health - Environmental Health

Master of Public Health - Epidemiology

Master of Public Health - Health Management and Policy

Master of Public Health - Public Health Practice

Master of Public Health - Social and Behavioral Sciences

Public Health Courses

- HMG 6747: Marketing in Hospitality/Tourism
- HSA 6114: U.S. Health Care System
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6010: Data Management and Statistical Computing for Epidemiology
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6055: Biostatistical Computing Using R
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6370: Public Health Biology
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6716: Survey Research Methods
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 6905: Independent Study
- PHC 6913: Biostatistics Project
- PHC 6930: Integrated Public Health Seminar
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7980: Research for Doctoral Dissertation
- STA 6177: Applied Survival Analysis
- STA 6208: Basic Design and Analysis of Experiments

Statistics Courses

Master of Public Health with a Concentration in Biostatistics

The contribution of biostatisticians is far reaching and includes both core public health research and consultation with other health professionals. The biostatistics concentration is designed primarily for students with a previous graduate degree (particularly in the health sciences) who want to obtain a solid background in quantitative and analytical methods for public health research. The course work exposes students to methodology typically used to analyze different types of public health data and gives them opportunities to apply these methodologies themselves.

Graduates of the M.P.H. program with a concentration in biostatistics return to their careers with an improved understanding of quantitative methods for public health research. This increased knowledge will facilitate their own research programs and will enhance their ability to critically read the literature in their field. The biostatistics concentration requires completion of 6 concentration core courses: PHC 6053 Regression Methods for the Health and Life Sciences, PHC 6000 Epidemiology Research Methods I, PHC 6080 SAS for Public Health Data, PHC 6081 SAS for Public Health Analysis, and PHC 6055 Biostatistical Computing Using R. Remaining courses include the public health internship (PHC 6946) and electives in statistics and public health. Visit the biostatistics concentration website for the most up-to-date information about course options: <http://mph.ufl.edu/programs/master-of-public-health/biostatistics>.

See the department Biostatistics website for information about other programs offered by the department: <http://biostat.ufl.edu/>.

Master of Public Health with a Concentration in Environmental Health

Professionals trained in environmental health study the impact of our surroundings on our health. They understand how environmental risk factors can cause diseases like asthma, cancer, and food poisoning. Environmental health professionals make up approximately half of public health personnel and the field accounts for about half of public health expenditures. Students interested in environmental health typically have a background in biological or physical sciences, engineering, nursing, medicine, and veterinary medicine. Prior experience in chemistry, biology, statistics, and Microsoft Excel software is desirable. Please note the prerequisites for Environmental Health courses and speak with the instructor if you have not successfully completed the prerequisites. The following courses are required for all students pursuing the environmental health concentration: VME 6602, VME 6607, PHC 6702, and PHC 6316. Students may also choose from elective course work listed on the department website below. Environmental health students complete their programs with an internship (PHC 6946) and electives on a wide variety of environmental health and public health topics.

Visit the environmental health concentration website for the most up-to-date information about course options:

<http://mph.ufl.edu/programs/master-of-public-health/environmental-health>. And visit the Website of the Department of Environmental and Global Health for information about other academic programs and activities in the department: <http://egh.phhp.ufl.edu>.

Environmental Health Courses

- EES 5245: Water Quality Analysis
- ENV 5105: Foundations of Air Pollution
- FOS 5205: Current Issues in Food Safety and Sanitation
- PHC 6702: Exposure Measurement and Assessment
- SWS 5551: Soils, Water, and Public Health
- VME 6602: General Toxicology
- VME 6603: Advanced Toxicology
- VME 6605: Toxic Substances
- VME 6607: Human Health Risk Assessment

Master of Public Health with a Concentration in Epidemiology

Epidemiology focuses on the study of the distribution and determinants of health in populations and communities. It is the scientific foundation of public health research that seeks to reduce risk factors and improve health. The discipline also contributes to public health practice and policy, and research in other health-related fields such as medicine and pharmacy. This concentration area is designed to train professionals to apply the principles and methods of epidemiological investigation in a broad range of settings. The required concentration core courses in epidemiology are PHC 6000, PHC 6002, PHC 6003, PHC 6011, and PHC 6053. Epidemiology concentration students complete their programs with an internship (PHC 6946) and electives in epidemiology and public health.

Additional detail and options for epidemiology elective course work is at the website: <http://mph.ufl.edu/programs/master-of-public-health/epidemiology>. Please also visit the website of the Department of Epidemiology for up-to-date information about other epidemiology programs and activities: <http://epidemiology.phhp.ufl.edu>.

Epidemiology Courses

- PHC 6000: Epidemiology Methods I
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6011: Epidemiology Methods II
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6405: Theoretical Foundations of Public Health
- PHC 6912: Special Project: Independent Research
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 6946: Public Health Internship

Master of Public Health with a Concentration in Public Health Management and Policy (PHMP)

This concentration focuses on the structure and administration of health organizations and the policies that impact health programs and reimbursement of health services. The concentration

encompasses two of the major roles of leaders in public health. Essential skills for managing a health agency or organization include accounting, financial management, human resource management, strategic and program planning, operations research, economics, and monitoring outcome measures. Development, analysis, interpretation, and evaluation of government policies require analytical skills and social skills, as well as a deep understanding of politics.

The PHMP concentration requires six core courses: HSA 5174, HSA 6115, HSA 6152, PHC 6104, PHC 6421, and PHC 6103. In addition, students take two elective courses in one of three areas of specialization:

- Public health management
- Public policy
- Pharmaceutical use and policy.

The PHMP students complete their programs with an internship (PHC 6946) and public health elective courses.

Visit the public health management and policy concentration website for the most up-to-date information about course options:

<http://mph.ufl.edu/programs/oncampusprograms/concentrations-2/managementpolicy>.

The website of Department of Health Services Research, Management, and Policy provides additional information about activities and other academic programs in the department:

<http://hsmp.phhp.ufl.edu>.

Public Health Management and Policy Courses

- HSA5174: Fundamentals of Health Care Finance
- HSA6115: Introduction to Management of Health Services Organizations
- HSA6152: Overview of U.S. Health Policy
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6421: Public Health Law and Ethics

Master of Public Health with a Concentration in Public Health Practice

This concentration provides the opportunity to develop breadth in public health by taking coursework in two, three, or four of the core public health concentrations. Such breadth is often required of professionals who assume positions of leadership in public health. It is available to students in joint and concurrent degree programs, medical and other health scientists, and working professionals. Public Health Practice is the only M.P.H. concentration available online.

The campus curriculum for this concentration follows the same model as the other concentrations. Students pursuing public health practice begin their programs with the 5 core courses required of all MPH students. Instead of a specified set of concentration core courses, however, these students may choose 2 or more courses from advanced course options in two to four of the other concentrations. Students complete their degree with a 5 to 8 credit internship. All students in this concentration must hold a prior health professional degree or be enrolled in a joint or concurrent graduate program. To be eligible for the accelerated option, applicants must hold a terminal degree in a health or health-related field.

The online Public Health Practice curriculum begins with the 5 core courses and then offers two or more courses in epidemiology, environmental health, public health management and policy and social and behavioral sciences. Students complete their degree with a 5 to 8 credit internship. Online students are not available to pursue the MPH on campus in Gainesville, either due to employment or geographic distance.

Master of Public Health with a Concentration in Social and Behavioral Sciences

The social and behavioral sciences concentration is based on the assumption that health and health behavior are influenced by multiple psychological, behavioral, social, and cultural factors. Central to addressing health problems and eliminating health disparities and inequalities, these factors must be understood and addressed using a framework that explores multiple levels (individual, interpersonal, organizational, community, and population) and the interactions among them. Through classroom instruction, research, and field practice, MPH students who concentrate in social and behavioral sciences explore the unique issues faced by diverse groups and populations and acquire skills to achieve social and behavioral change. Students in the social and behavioral sciences concentration are required to take five courses: PHC 6251 (Assessment and Surveillance in Public Health), PHC 6146 (Public Health Program Planning and Evaluation), PHC 6700 (Social and Behavioral Research Methods), PHC 6195 (Public Health Information for Diverse Populations), and PHC 6405 (Theoretical Foundations of Public Health). In addition, they may choose two courses from ten concentration electives (e.g., PHC 6762, PHC 6441). Social and behavioral science students complete their programs with an internship (PHC 6946) and elective courses in public health or related fields.

Visit the social and behavioral science concentration website for the most up-to-date information about course options: <http://mph.ufl.edu/programs/master-of-public-health/socialbehavioralsciences>.

The website of Department of Behavioral Science and Community Health provides additional information about activities and other academic programs in the department:

<http://bsch.phhp.ufl.edu>.

Social and Behavioral Sciences Courses

- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6441: Health Disparities in the United States
- PHC 6700: Social and Behavioral Research Methods
- PHC 6762: International Public Health
- PHC 6937: Special Topics in Public Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom

- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
- RSD 6700: Rasch Measurement: Introduction and Application
- RSD 6705: Research Methods in Rehabilitation
- RSD 6706: Scientific Writing for the Rehabilitation Professional
- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D. - Environmental and Global Health)

College

[College of Public Health and Health Professions](#)

Department/School

[Environmental and Global Health](#)

Degrees Offered With a Major in Public Health

Doctor of Philosophy

concentration in Environmental Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
- PHC 6520: Foodborne Diseases
- PHC 6530: Public Health Issues of Mothers and Children
- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
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- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
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- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
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- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom

- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
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- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- RCS 5245: Psychosocial and Cultural Foundations of Rehabilitation Counseling
- RCS 6066: Rehabilitation Issues in Human Growth and Development
- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
- RCS 6242C: Vocational and Lifestyle Assessment in Rehabilitation Counseling
- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
- RCS 6412: Rehabilitation Counseling Theory and Practice
- RCS 6470: Human Sexuality and Disability
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- RCS 6625: Community Counseling and Case Management
- RCS 6641: Applied Case Management and Consultation in Rehabilitation Counseling
- RCS 6740: Rehabilitation Research
- RCS 6780: Ethical, Legal, and Professional Issues in Rehabilitation
- RCS 6801: Rehabilitation Counseling Practicum
- RCS 6825: Internship in Rehabilitation Counseling
- RCS 6905: Individual Work
- RCS 6910: Supervised Research
- RCS 6931: Special Topics
- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D. - One Health)

College

[College of Public Health and Health Professions](#)

Environmental and Global Health Department

[Environmental and Global Health Department](#)

Degrees Offered With a Major in Public Health

Doctor of Philosophy

concentration in One Health

Environmental and Global Health Departmental Courses

- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6722: Environmental and Global Health Research Methods Rotation
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6947: Occupational Health Field Research Experience
- PHC 7935: Critical Thinking in Environmental and Global Health

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6146: Public Health Program Planning and Evaluation
- PHC 6153: Public Policy and Aging
- PHC 6183: Disaster Preparedness and Emergency Response
- PHC 6194: Spatial Epidemiology
- PHC 6195: Health Information for Diverse Populations: Theory & Methods
- PHC 6220: Overview of Long-Term Care
- PHC 6251: Assessment and Surveillance in Public Health
- PHC 6301: Aquatic Systems and Environmental Health
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6312: Water Quality and Human Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6316: Health, Risk, and Crisis Communication
- PHC 6317: Risk Communication for Public Health Practice
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
- PHC 6403: Adolescence, Risk Taking and Health
- PHC 6404: Gender, Sexuality, and Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health
- PHC 6413: Critical Incidents and Violence in Communities
- PHC 6418: Foundations in Aging and Public Health Policy and Epidemiology
- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
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- PHC 6543: Community Practice of Behavioral Health Risk Prevention
- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Laboratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6601: Seminar in Contemporary Public Health Issues
- PHC 6931: Seminars in Public Health
- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing for Population Health Research
- PHC 7752: Seminar in Instrument Development for Public Health
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- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- PHT 5156: Exercise Physiology
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- PHT 6615L: Research Instrumentation in Physical Therapy
- PHT 6718: Neuroplasticity: A Foundation for Neurorehabilitation
- RSD 6110: Rehabilitation Science Theory and Application I
- RSD 6112: Rehabilitation Science Theory and Application II
- RSD 6114: Rehabilitation in the United Kingdom

- RSD 6400: Models and Principles of Motor Learning and Control: Application in Rehabilitation Science
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- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
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- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D. - Social and Behavioral Sciences)

College

[College of Public Health and Health Professions](#)

Department/School

[Behavioral Science and Community Health Department](#)

Behavioral Science and Community Health Program Information

Social & Behavioral Sciences

The PhD in Public Health -Social and Behavioral Sciences (SBS) Track is targeted to individuals who wish to develop advanced knowledge and skills in the social and behavioral sciences theories and methods used in public health. Training is designed for those who desire public health careers in research, academics, government, or related health organizations. A prior graduate degree in public health or a related field is strongly preferred.

The program is focused upon the assumption that health and health behavior are impacted by multiple psychological, behavioral, social, and cultural factors. Central to addressing health problems and eliminating health disparities and inequalities, these factors must be understood and addressed at multiple social-ecological levels (individual, interpersonal, organizational, community, and population).

PhD students who concentrate in social and behavioral sciences explore the unique issues faced by diverse groups and populations and acquire skills to achieve social and behavioral change.

Contact

Dr. Giselle Carnaby (nee Mann), Program Director
 gmamm@phhp.ufl.edu
 Phone: 352-273-6745 ext. 36497; ext. 36164 (lab)
 Office: HPNP 4172; DG-140 (lab)

For more information, please visit <http://sbs.phhp.ufl.edu/>

Degrees Offered with a Major in Public Health

Doctor of Philosophy

concentration in Social and Behavioral Sciences

College of Public Health and Health Professions Courses

- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6000: Epidemiology Methods I
- PHC 6001: Principles of Epidemiology in Public Health
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- PHC 6003: Epidemiology of Chronic Diseases and Disability
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- PHC 6016: Social Epidemiology in Public Health
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- PHC 6194: Spatial Epidemiology
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- PHC 6370: Public Health Biology
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- PHC 6419: Biomedical and Psychological Aspects of Very Late Life
- PHC 6421: Public Health Law and Ethics
- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
- PHC 6447: Ecology of HIV/Aids in the Rural South
- PHC 6512: Environmental Management of Vector-Borne Diseases
- PHC 6515: Introduction to Entomology Zoonotic Diseases and Food Safety
- PHC 6519: Zoonotic Diseases in Humans and Animals
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- PHC 6561: Public Health Laboratory Techniques
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- PHC 6586: Interventions for Public Health
- PHC 6607: Critical Issues in Public Health
- PHC 6700: Social and Behavioral Research Methods
- PHC 6702: Exposure Measurement and Assessment
- PHC 6706: Health-Medical Outcomes Research and Measurement: A Policy Applications Perspective
- PHC 6762: International Public Health
- PHC 6905: Independent Study
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- PHC 6601: Seminar in Contemporary Public Health Issues
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- PHC 6937: Special Topics in Public Health
- PHC 6945: Public Health Practicum
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7038: Psychiatric Epidemiology
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- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Public Health (Ph.D.)

College

[College of Public Health and Health Professions](#)

Degrees Offered with a Major in Public Health

Doctor of Philosophy

College of Public Health and Health Professions Courses

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- PHC 6009: Biology and Epidemiology of HIV/AIDS
- PHC 6011: Epidemiology Methods II
- PHC 6016: Social Epidemiology in Public Health

- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
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- PHT 6615L: Research Instrumentation in Physical Therapy
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- RCS 6066: Rehabilitation Issues in Human Growth and Development

- RCS 6080: Medical and Psychosocial Aspects of Rehabilitation Counseling
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- RCS 6255C: Individual Evaluation and Assessment in Rehabilitation Counseling
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- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

Rehabilitation Science

College

[College of Public Health and Health Professions](#)

Rehabilitation Science Program Information

Director: David D. Fuller

Graduate Coordinator: Ellen Esparolini

Admissions Coordinator: Amy Ladendorf

Complete faculty listing by department: [Follow this link.](#)

The interdisciplinary Ph.D. program in rehabilitation science is offered through the College of Public Health and Health Professions. It is designed to prepare rehabilitation scholars. Students are given the opportunity to develop skills in teaching, research, service leadership, and interdisciplinary teamwork. Students work closely with their faculty mentor within the broad categories of Movement Science, Disability Science, and Communication and Swallowing Science. On successful completion of the program, graduates typically take positions in research universities and research centers. Requirements for the Ph.D. degree are provided elsewhere in this catalog.

Admissions decisions are determined by an interdisciplinary admissions committee. The program is a minimum of 90 credit hours of study beyond the Bachelor's degree. The curriculum includes 25 graduate credits in core rehabilitation courses (rehabilitation science theory, research, and teaching) required of all students; 50 credits in specialty areas; and 15 credits of dissertation research. The 50 credits of specialty courses includes 18 credits from one (or a combination) of the three major emphases in rehabilitation mentioned above. The remaining 32 credit hours may be electives, or 30 credits may be transferred in from a master's degree program (with the approval of the supervisory committee. Specialty course work must be chosen by the student with supervisory committee input and approval.

For more information, please see our website: <http://rehabsci.phhp.ufl.edu>.

Degrees Offered with a Major in Rehabilitation Science

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

Rehabilitation Sciences Courses

- PHT 5156: Exercise Physiology

- PHT 6125C: Concepts in Clinical Biomechanics
- PHT 6127C: Control of Gait and Posture
- PHT 6167C: Applied Neurophysiology for Physical Therapy
- PHT 6236C: Neurological Dysfunction as Applied to Physical Therapy
- PHT 6316: Neurological Aspects of Orthopedic Rehabilitation
- PHT 6615L: Research Instrumentation in Physical Therapy
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- RSD 6900: College Classroom: Teaching Process and Practice
- RSD 6905: Individual Work
- RSD 6910: Supervised Research
- RSD 6930: Special Topics in Rehabilitation Science
- RSD 6940: Supervised Teaching
- RSD 7979: Advanced Research
- RSD 7980: Research for Doctoral Dissertation
- SPA 5401: Speech Pathology Language Disorder
- SPA 6008: Medical Aspects of Speech-Language Pathology
- SPA 6117: Science of Singing
- SPA 6217: Vocal Health and Habilitation
- SPA 6311: Medical Audiology
- SPA 6312: Advanced Audiology and Neuro-Otology
- SPA 6340: Amplification I
- SPA 6341: Amplification II
- SPA 6342: Amplification III
- SPA 6436: Issues in Autism Spectrum Disorders
- SPA 6568: Clinical Evaluation in Medical Speech-Language Pathology
- SPA 6581: Special Clinical
- SPA 6830: Communication Disorders in Medically Complex Pediatric Populations
- SPA 7132C: Clinical Instrumentation for Evaluating Upper Aerodigestive Tract Functions
- SPA 7306: Audiologic Assessment in a Medical Setting
- SPA 7391: Business and Professional Issues in Audiology
- SPA 7415: Neurolinguistics of Adult Language Disorders
- SPA 7540: Diagnosis and Treatment of Language and Language-Based Literacy Disorders
- SPA 7833: Audiology Research Project
- SPA 7937: Seminar in Advanced Studies of Language and Literacy Development and Disabilities
- SPA 7945: Graduate Practicum in Audiology
- SPA 7946: Clinical I: Practicum in Medical Speech and Language Pathology
- SPA 7947: Clinical II: Practicum in Advanced Medical Speech-Language Pathology
- SPA 7958: Clinical Externship

College of Public Health and Health Professions Courses

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- RCS 6940: Supervised Teaching
- RCS 6945: Advanced Rehabilitation Counseling Practicum
- RCS 6971: Research for Master's Degree

College of Veterinary Medicine

Dean: G. F. Hoffsis

Complete faculty listings: [Follow this link.](#)

The UF College of Veterinary Medicine is the state's only veterinary college. UF's College of Veterinary Medicine offers comprehensive services to the public through teaching, research, extension and state-of-the-art patient care.

For more information, please see our website: <http://www.vetmed.ufl.edu>

[Departments and Programs within the College of Veterinary Medicine](#)

[College of Veterinary Medicine Courses](#)

Other

Animal Molecular and Cellular Biology

College

- [College of Agricultural and Life Sciences](#)
- [College of Liberal Arts and Sciences](#)
- [College of Veterinary Medicine](#)

Department/School

[Animal Molecular and Cellular Biology Department](#)

Animal Molecular and Cellular Biology Program

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are [BCH 5045](#) and registration in a 1-credit graduate seminar course. Core course requirements for the Ph.D. include [BCH 5413](#) and [GMS 6421](#) and registration in two graduate seminar courses.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <http://www.animal.ufl.edu/amcb/>.

Degrees Offered with a Major in Animal Molecular and Cellular Biology

Doctor of Philosophy

Master of Science

Animal Molecular and Cellular Biology Courses

- ALS 5905: Individual Study
- ALS 6046: Grant Writing
- ANS 5312C: Applied Ruminant Reproductive Management
- ANS 5446: Animal Nutrition
- ANS 5935: Reproductive Biology Seminar and Research Studies
- ANS 6288: Experimental Techniques and Analytical Procedures in Meat Research
- ANS 6314: Experimental Embryology
- ANS 6313: Current Concepts in Reproductive Biology
- ANS 6449: Vitamins
- ANS 6452: Principles of Forage Quality Evaluation
- ANS 6458: Advanced Methods in Nutrition Technology
- ANS 6636: Meat Technology
- ANS 6666L: Molecular and Cellular Research Methods
- ANS 6702: Lactation Physiology of Farm Animals
- ANS 6704: Mammalian Endocrinology

- PCB 6816: Thermal Physiology
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: Gastrointestinal and Feed Microbiology
- ANS 6716: Physiology in Farm Animals
- ANS 6718: Nutritional Physiology of Domestic Animals
- ANS 6723: Mineral Nutrition and Metabolism
- ANS 6745: Introduction to Statistical Genetics
- ANS 6750: Reproductive Physiology in Farm Animals
- ANS 6751: Physiology of Reproduction
 - ANS 6751C
- ANS 6767: Molecular Endocrinology
- ANS 6905: Problems in Animal Science
- ANS 6910: Supervised Research
- ANS 6932: Special Topics in Animal Science
- ANS 6933: Graduate Seminar in Animal Science
- ANS 6936: Graduate Seminar in Animal Molecular and Cell Biology
- ANS 6939: Animal Molecular and Cellular Biology Journal Colloquy
- ANS 6940: Supervised Teaching
- ANS 6971: Research for Master's Thesis
- ANS 7979: Advanced Research
- ANS 7980: Research for Doctoral Dissertation
- BCH 5045: Graduate Survey of Biochemistry
- BCH 6876: Recent Advances in Membrane Biology
- BME 5085: Patents, Product Development, and Technology Transfer
- BME 5401: Biomedical Engineering and Physiology I
- BCH 5413: Mammalian Molecular Biology and Genetics
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6877: Recent Advances in Structural Biology
- BCH 6878: Recent Advances in Cytoskeletal Processes
- GMS 6011: Mouse Genetics
- GMS 6012: Human Genetics
- GMS 6013: Developmental Genetics
- GMS 6014: Applications of Bioinformatics to Genetics
- GMS 6017C: In-Vitro Fertilization Laboratory Practicum A
- GMS 6018L: Advanced in-Vitro Fertilization Laboratory Practicum
- GMS 6031: Molecular Immunology
- GMS 6051: Signal Transduction
- GMS 6061: Nuclear Structure and Dynamics
- GMS 6062: Protein Trafficking
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6140: Principles of Immunology
- GMS 6331: Stem Cell Biology
- GMS 6421: Cell Biology
- GMS 6647: Transcriptional and Translational Control of Cell Growth and Proliferation
- MCB 5305L: Microbial Genetics and Biotechnology Laboratory
- MCB 6485: Advanced Techniques in Microbiology and Cell Science
- PCB 5065: Advanced Genetics
- PCB 5235: Immunology
- PCB 5615: Molecular Evolution and Systematics
- PHA 6449: Pharmacogenomics
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6934: Special Topics in Statistics
- VME 5244: Physiology: Organ Systems
- VME 6602: General Toxicology
- VME 6810: Integrating Veterinary Medicine with Shelter Systems
- VME 6811: Shelter Animal Physical Health
- VME 6812: Shelter Animal Behavior and Welfare
- ZOO 6927: Special Topics in Zoology

Veterinary Medical Sciences

College

[College of Veterinary Medicine](#)

Veterinary Medical Sciences Program

Chair: C. Risco

Graduate Coordinator (Large Animals): I. Larkin

Graduate Coordinator (Small Animals): D. Lewis

Complete faculty listing by department: [Follow this link.](#)

The College of Veterinary Medicine offers graduate study leading to the Master of Science and Doctor of Philosophy degrees in veterinary medical sciences. The College also offers certification and a nonthesis concentration in forensic toxicology via web-based distance education. Minimum requirements for the Master of Science and Doctor of Philosophy degrees are described in the *Graduate Degrees* section of this catalog.

The program provides extensive training in basic and applied research for qualified students with a baccalaureate degree or a D.V.M. or equivalent degree. Applicants are expected to have a background in the biological sciences, mathematics, chemistry, and physics. Particular attention is paid to the advanced education of veterinarians, those interested solely in research, and those interested in combining their graduate study with residency training in a clinical specialty. The College offers three areas of specialization within the veterinary medical sciences program:

Large and Small Animal Clinical Sciences: Physiology, endocrinology, aquatic animal health, fish diseases, gastroenterology, immunology, vision sciences, perinatology, reproductive biology, pharmacokinetics, veterinary sports medicine, and wildlife and zoological medicine (I. Larkin and D. Lewis Graduate Coordinators).

Physiological Sciences: Comparative anatomy, physiology, pharmacology, biochemistry, neurobiology, nutrition, reproductive biology, and toxicology (R. Johnson, Graduate Coordinator).

Infectious Diseases and Experimental Pathology: Bacteriology, parasitology, virology, immunopathology, molecular mechanisms of disease and host defense, epidemiology, and veterinary public health (M.T. Long, Graduate Coordinator).

The College participates in the interdisciplinary specialization in toxicology, in cooperation with other departments and colleges in both the Health Science Center and the Institute of Food and Agricultural Sciences and with the Center for Environmental and Human Toxicology (see the Toxicology description under *Interdisciplinary Graduate Studies*).

The following courses in related areas are acceptable for graduate major credit in veterinary medical sciences: **Physiological Sciences:** [ANS 6704](#), [ANS 6751](#), [BCH 5413](#), [BCH 6206](#), [BCH 6415](#), [BCH 6740](#), BMS 6510, [GMS 6400C](#), [GMS 6735](#), GMS 7706C, GMS 7743. **Infectious Diseases and Experimental Pathology:** [BCH 5413](#), [BCH 6415](#), BMS 603, GMS 5304C, [GMS 6140](#), GMS 6152, GMS 6330, GMS 6332, GMS 6333, [GMS 6381](#), [GMS 6382](#), [GMS 6421](#), [STA 6208](#), [STA 6166](#), STA 6176. **Large and Small Animal Clinical Sciences:** all of the above.

Degrees Offered with a Major in Veterinary Medical Sciences

Doctor of Philosophy

without a concentration

concentration in Animal Molecular and Cellular Biology

concentration in Clinical and Translational Science

concentration in Toxicology

Master of Science

without a concentration

concentration in Forensic Toxicology

concentration in Shelter Medicine

concentration in Veterinary Forensic Sciences

Courses

- GMS 6070: Sensory and Motor Systems
- GMS 6074: Comparative and Evolutionary Neurobiology
- GMS 6077: Neural Degeneration and Regeneration
- GMS 6312: Clinical Chemistry and Toxicology
- GMS 6313: Clinical Chemistry and Toxicology: A Rotation
- GMS 6393: Seminar in Clinical Chemistry
- PHA 5270: Health Care and Patient Safety
- PHA 5271: Health Care Risk Management
- PHA 5272: Risk Management, Liability and Compliance
- PHA 6115: Equilibria, Complexations, and Interactions of Drugs
- PHA 6116: In Vivo and In Vitro Stability of Drugs
- PHA 6118: Molecular Diversity
- PHA 6125: Pharmacokinetics and Biopharmaceutics
- PHA 6170C: Pharmaceutical Product Formulation
- PHA 6183: Pharmaceutical Gene Delivery
- PHA 6185: Pharmaceutical Drug Development
- PHA 6227: Institutional Pharmacy Leadership I
- PHA 6228: Institutional Pharmacy Leadership II
- PHA 6235: Advanced Pharmaceutical Law
- PHA 6236: Health Sciences Liability Law
- PHA 6250: Patient Responsibility in Health Care
- PHA 6264: Pharmacoeconomics and Health Technology Assessment
- PHA 6265: Introduction to Pharmaceutical Outcomes and Policy I
- PHA 6266: Introduction to Pharmaceutical Outcomes and Policy II
- PHA 6268: Pharmacoepidemiology and Patient Safety
- PHA 6269: Pharmaceutical Products and Public Policy
- PHA 6273: Structure, Process, and Outcomes of Regulation
- PHA 6274: Federal Regulations of Drugs and Pharmacy
- PHA 6275: Federal Regulations of Controlled Substances
- PHA 6276: Regulating Pharmaceutical Access and Costs
- PHA 6277: Ethics in Drug Development Production and Use
- PHA 6278: State Regulation of Drugs and Pharmacy
- PHA 6279: Pharmaceutical Outcomes and Policy Seminar
- PHA 6286: Pharmaceutical Microeconomics
- PHA 6287: Pharmaceutical Health Economics
- PHA 6288: Critical Review of Research Methods
- PHA 6289: Regulating Clinical Research
- PHA 6291: Pharmaceutical Health Care Systems
- PHA 6416: Pharmaceutical Analysis I
- PHA 6417: Pharmaceutical Analysis II
- PHA 6427: Pharmacogenetics of Drug Metabolism
- PHA 6440: Seminar in Drug Discovery
- PHA 6717: Measurement in Pharmacy Administration Research
- PHA 6793: Evidentiary Basis of Pharmaceutical Use
- PHA 6796: Study Design in Pharmaceutical Outcomes & Policy Research
- PHA 6798: The Use and Abuse of Statistics in Drug Regulation
- PHA 6799: Patient Safety Program Evaluation
- PHA 6805: Applied Data Interpretation and Reporting of Findings in Pharmacy
- PHA 6891: Introduction to Pharmacoepidemiology
- PHA 6892: Practices and Procedures of the IRB
- PHA 6893: Research Ethics
- PHA 6894: Introduction to Graduate Studies
- PHA 6896: Preclinical Drug Evaluation
- PHA 6937: Topics in Pharmaceutical Administration
- PHC 6107: Introduction to Veterinary Public Health
- VME 5162C: Avian Diseases
- VME 5244: Physiology: Organ Systems
- VME 6008: Care of Aquatic Megavertebrates
- VME 6010: Aquatic Animal Conservation Issues
- VME 6011: Introduction to Aquatic Wildlife Health Issues
- VME 6017: Manatee Health & Conservation
- VME 6051: Cruelty to Animals and Interpersonal Violence
- VME 6052: Animal Crime Scene Processing
- VME 6054: Scientific and Legal Principles of Forensic Evidence
- VME 6056: Animal Law
- VME 6076C: Andrology
- VME 6135: Diseases of Laboratory Animals I
- VME 6136: Diseases of Laboratory Animals II
- VME 6186: Advanced Topics in Disease Pathogenesis
- VME 6421: Biology and Molecular Biology of Avian Viruses
- VME 6430C: Contemporary Issues in Small Animal Surgery
- VME 6464: Molecular Pathogenesis
- VME 6505: Autoimmunity
- VME 6570: Wildlife Conservation and Forensic Science
- VME 6571: Forensic Applied Animal Behavior
- VME 6572: Forensic Aspects of Agricultural Animal Welfare
- VME 6573: Wildlife Forensic Genetics
- VME 6575: Veterinary Forensic Medicine
- VME 6576: Veterinary Forensic Pathology
- VME 6577: Veterinary Forensic Pathology in Practice
- VME 6578: Forensic Veterinary Osteology
- VME 6579: Veterinary Forensic Radiology and Imaging
- VME 6602: General Toxicology
- VME 6603: Advanced Toxicology

- VME 6604: Literature Survey in Toxicology
- VME 6605: Toxic Substances
- VME 6606: Ecological Risk Assessment
- VME 6607: Human Health Risk Assessment
- VME 6613: Forensic Toxicology I
- VME 6614: Forensic Toxicology II
- VME 6615: Veterinary Forensic Toxicology
- VME 6650: Principles of Mammalian Pharmacology
- VME 6766: Laboratory Quality Assurance/Quality Control
- VME 6767: Issues in the Responsible Conduct of Research
- VME 6771: Veterinary Epidemiologic Research
- VME 6905: Problems in Veterinary Medical Sciences
- VME 6910: Supervised Research
- VME 6931: Seminar in Veterinary Medical Sciences
- VME 6932: Seminar in Physiological Sciences
- VME 6933: Seminar in Infectious Diseases and Experimental Pathology
- VME 6934: Topics in Veterinary Medical Sciences
- VME 6936: Seminar in Pathophysiology
- VME 6938: Topics in Aquatic Animal Health
- VME 6940: Supervised Teaching
- VME 6971: Research for Master's Thesis
- VME 7979: Advanced Research
- VME 7980: Research for Doctoral Dissertation
- WIS 5323C: Impact of Diseases on Wildlife Population

College of Pharmacy Courses

- PHA 5171: Pharmaceutical Biotechnology
- PHA 6521C: Research Techniques in Pharmacodynamics
- PHA 6806: Pharmacoeconomic Modeling
- PHA 6910: Supervised Research
- PHA 6935: Selected Topics in Pharmacy
- PHA 6936: Advanced Topics in Pharmaceutical Sciences
- PHA 6938: Research Seminar
- PHA 6940: Supervised Teaching
- PHA 6971: Research for Master's Thesis
- PHA 7979: Advanced Research
- PHA 7980: Research for Doctoral Dissertation

Pharmacodynamics Courses

- PHA 5531: Neurotoxicology
- PHA 6508: Systems Physiology and Pathophysiology I
- PHA 6509: Systems Physiology and Pathophysiology II
- PHA 6512L: Experiential Research Training in Pharmacodynamics
- PHA 6521C: Research Techniques in Pharmacodynamics
- PHA 6522L: ICBR Molecular Techniques Laboratory
- PHA 6540: Neurochemical Foundation of Pharmacodynamics
- PHA 7939: Journal Colloquy in Pharmacodynamics

Pharmacology Courses

- GMS 6563: Molecular Pharmacology
- GMS 6590: Seminar in Pharmacology
- GMS 6592: Ion Channels Journal Club: Pharmacology, Biophysics, and Neuroscience of Excitable Membranes
- GMS 6735: Neuropharmacology
- GMS 7593: Topics in Pharmacology and Toxicology

Veterinary Medicine Courses - filtered

College of Veterinary Medicine

Dean: G. F. Hoffsis

Complete faculty listings: [Follow this link.](#)

The UF College of Veterinary Medicine is the state's only veterinary college. UF's College of Veterinary Medicine offers comprehensive services to the public through teaching, research, extension and state-of-the-art patient care.

For more information, please see our website: <http://www.vetmed.ufl.edu>

[Departments and Programs within the College of Veterinary Medicine](#)

[College of Veterinary Medicine Courses](#)

GMS 6070: Sensory and Motor Systems

GMS 6074: Comparative and Evolutionary Neurobiology

GMS 6077: Neural Degeneration and Regeneration

GMS 6312: Clinical Chemistry and Toxicology

GMS 6313: Clinical Chemistry and Toxicology: A Rotation

GMS 6393: Seminar in Clinical Chemistry

PHC 6107: Introduction to Veterinary Public Health

VME 5162C: Avian Diseases

VME 5244: Physiology: Organ Systems

VME 6008: Care of Aquatic Megavertebrates

VME 6010: Aquatic Animal Conservation Issues

VME 6011: Introduction to Aquatic Wildlife Health Issues

VME 6017: Manatee Health & Conservation

VME 6051: Cruelty to Animals and Interpersonal Violence

VME 6052: Animal Crime Scene Processing

VME 6054: Scientific and Legal Principles of Forensic Evidence

VME 6056: Animal Law

VME 6076C: Andrology

VME 6135: Diseases of Laboratory Animals I

VME 6136: Diseases of Laboratory Animals II

VME 6186: Advanced Topics in Disease Pathogenesis

VME 6421: Biology and Molecular Biology of Avian Viruses

VME 6430C: Contemporary Issues in Small Animal Surgery

VME 6464: Molecular Pathogenesis

VME 6570: Wildlife Conservation and Forensic Science

VME 6571: Forensic Applied Animal Behavior

VME 6572: Forensic Aspects of Agricultural Animal Welfare

VME 6573: Wildlife Forensic Genetics

VME 6575: Veterinary Forensic Medicine

VME 6576: Veterinary Forensic Pathology

VME 6577: Veterinary Forensic Pathology in Practice

VME 6578: Forensic Veterinary Osteology

VME 6579: Veterinary Forensic Radiology and Imaging

VME 6602: General Toxicology

VME 6603: Advanced Toxicology

VME 6604: Literature Survey in Toxicology

VME 6605: Toxic Substances

VME 6606: Ecological Risk Assessment

VME 6607: Human Health Risk Assessment

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VME 6614: Forensic Toxicology II

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VME 6934: Topics in Veterinary Medical Sciences

VME 6936: Seminar in Pathophysiology

VME 6938: Topics in Aquatic Animal Health

VME 6940: Supervised Teaching

VME 6971: Research for Master's Thesis

VME 7979: Advanced Research

VME 7980: Research for Doctoral Dissertation

WIS 5323C: Impact of Diseases on Wildlife Population