College of Agricultural and Life Sciences

College of Agricultural and Life Sciences Dean: T. Balser

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.

Warrington College of Business Administration

Warrington College of Business Administration Dean: J. Kraft

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 *Requirements for Master's Degrees* of this catalog. Admission and degree requirements for the Ph.D., M.A., and M.S. degrees can be found in the *General Information* section.

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 *Fields of Instruction* 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 *General Information* section of this catalog.

College of Dentistry

College of Dentistry Dean: T. A. Dolan
Interim Director: R. Pileggi

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 100. In 1993, the college started master degree programs in endodontics, orthodontics, periodontics and prosthodontics, and continues today to grow.

Follow these links for more information about UF's College of Dentistry graduate programs:
www.dental.ufl.edu/Offices/Admissions/Grad/default.php#program-descriptions

College of Design, Construction, and Planning

College of Design, Construction, and Planning Dean: C. Silver

DCP is home to five independent professional disciplines: architecture, building construction, 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
- Building Construction – 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 undegraduate 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.

College of Education

College of Education Dean: G. Good.

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/

College of Engineering

College of Engineering Dean: C. Abernathy

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.

College of Fine Arts

College of Fine Arts Dean: L. Lavelli

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.

College of Health and Human Performance

College of Health and Human Performance Dean: M. Reid

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 – place the college firmly in a position to influence and improve an array of societal problems and challenges.

College of Journalism and Communications

Dean: D. McFarlin
Graduate Coordinators: (Advertising) J. R. Goodman; (International Communication) M. Leslie; (Journalism) C. Armstrong; (Mass Communication Law) C. Calvert; (Public Relations) M.A. Ferguson; (Science/Health Communication) D. Treise; (Telecommunication) J. Cleary.

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 General Information 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 Associate Dean of Graduate Studies 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 Associate Dean of Graduate Studies.

Grading policy: Any student who receives one grade below B- 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 student who accumulates two grades below "B-" 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 consult http://www.jou.ufl.edu/grad.

Fredric G. Levin College of Law

Fredric G. Levin College of Law Dean: R. Jerry II

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.

College of Liberal Arts and Sciences

College of Liberal Arts and Sciences Dean: P. J. D'Anieri

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.

College of Medicine

College of Medicine Dean: M.L. Good

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. For further information, visit http://idp.med.ufl.edu/.

College of Nursing

College of Nursing Dean: A.M. McDaniel

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 and Clinical Nurse Leader.

For additional information about the Nursing programs, visit http://www.nursing.ufl.edu or call (352)273-6331.

College of Pharmacy

College of Pharmacy Dean: W. Riffee

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 pharmaceutics. 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 *General Information* 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.

College of Public Health and Health Professions

College of Public Health and Health Professions Dean: Michael G. Perri
Executive Associate Dean: Stephanie L. Hanson

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.

College of Veterinary Medicine

College of Veterinary Medicine Dean: G. F. Hoffsis

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.

University of Florida Graduate Programs (Majors)

The following majors[+] are offered by the University of Florida Graduate School; additional interdisciplinary and/or multi-college concentrations[+] follow the individual college's listings.

College of Agricultural and Life Sciences

- Agricultural and Biological Engineering
- Agricultural Education and Communication
- Agronomy
- Animal Molecular and Cellular Biology
- Animal Sciences
- Botany
- 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

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

- Dental Sciences

College of Design, Construction, and Planning

- Architecture
- Building Construction
- Design, Construction, and Planning (Ph.D.)
- Historic Preservation
- Interior Design
- International Construction Management
- Landscape Architecture
- Urban and Regional Planning

College of 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

- Aerospace Engineering
- Agricultural and Biological 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 Fine Arts

- Art
- Art Education
- Art History
- Digital Arts and Sciences (Fine Arts)
- Museology
- Music
- Music Education
- Theatre

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

- Advertising
- Mass Communication

Fredric G. Levin College of Law

- Comparative Law
- Environmental and Land Use Law
- International Taxation
- Taxation

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
- 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

- Biochemistry and Molecular Biology
- Biostatistics (Medicine)
- Epidemiology (Medicine)
- Genetics and Genomics
- Medical Sciences
- Medical Sciences (Health Outcomes and Policy)
- Molecular Genetics and Microbiology

College of Nursing

- Nursing
- Nursing Sciences

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

- Audiology
- Biostatistics (PHHP)
- Communication Sciences and Disorders
- Epidemiology (PHHP)
- Health Administration
- Health Services Research
- Occupational Therapy
- Psychology
- 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

- 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

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.

College of Agricultural and Life Sciences

Agricultural and Biological Engineering

- College of Agricultural and Life Sciences
- College of Engineering

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 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 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6037C: Remote Sensing in Hydrology
- 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 6265: Vadose Zone Modeling
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- ABE 5038: Recent Developments and Applications in Biosensors
- 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
- 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

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 Educationspecialization 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 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

Agronomy Department

Agronomy Program Information

The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and nonthesis option) in agronomy with specializations in crop physiology and ecology, crop management and nutrition, weed science, 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 agronomic plants in Florida and throughout the World. The continuing need for increased food, fiber and energy for a rapidly growing population is reflected in departmental research efforts. 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.

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 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
- PLS 5632C: Integrated Weed Management
- IPM 5305: Principles of Pesticides
- 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences
- College of Liberal Arts and Sciences
- College of Veterinary Medicine

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 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
- ANS 6706: Environmental Physiology of Domestic Animals
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: The Rumen and Its Microbes
- 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 6065: Fundamentals of Cancer Biology
- GMS 6421: Cell Biology
- 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
- PCB 6176: Electron Microscopy of Biological Materials
- 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

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 Courses for Major Credit

- 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 6126C: 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
- FOS 6646: Proteins and Enzymes in Food Systems
- FOS 6648: Carbohydrates in Food Systems
- 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

Additional Course Offerings

- 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 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 6706: Environmental Physiology of Domestic Animals
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: The Rumen and Its Microbes
- 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 6751: Physiology of Reproduction
- 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

College of Agricultural and Life Sciences Courses

- ALS 5036: Contemporary Issues in Science
- 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

College of Agricultural and Life Sciences

Biology Department

Botany Program Information

Chair: *C. Osenburg*
Graduate Coordinator: *B. Barbazuk*

The Department of Botany offers graduate work 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 General Information 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 Toxicology
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 Wetland Sciences

Courses

- BOT 5305: Paleobotany
- BOT 5225C: Plant Anatomy
- 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 5XXX
- BOT 6508C
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy
- 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 6176: Electron Microscopy of Biological Materials
- PCB 6176L: Laboratory in Electron Microscopy
- PCB 6356C
- BOT 6726C: Principles of Systematic Biology

Botany Courses

- BOT 6516: Plant Metabolism

College of Agricultural and Life Sciences Courses

- ALS 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

Entomology and Nematology Department

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 Pathology
- 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

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 Leadership, the Certificate in Nonprofit Organizational Leadership, or the Certificate in Personal & Family Financial Planning. All FYCS graduate degree programs are available as traditional classroom programs or online through the Distance Education program.

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 development of educational materials or programs, directed research, and evaluation of programs or interventions, for example.

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.

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 Personal and Family Financial Planning (open to non-majors) The Personal and Family Financial Planning (PFFP) program provides a career path to students interested in Family wellbeing. One of the clear dimensions for family wellbeing is that of family finances (e.g. net worth). The certificate and 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.

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, risk management are included as well as other tools.

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
- FYC 6330: Theories of Community Development
- FYC 6331: Involving Youths in Community Issues
- FYC 6412: Historical Foundations of Philanthrophy
- 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 5036: Contemporary Issues in Science
- 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

Director: T. L. White
Graduate Coordinator: William J. Lindberg

Complete faculty listing by department: Follow this link.

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

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. Requirements for these degrees are given in the *Graduate Degrees and Programs* section of this catalog.

Research programs of faculty encompass water quality and chemistry, fish ecology, marine and estuarine ecology, paleolimnology, crustacean biology, fish and shellfish genetics, fish and shellfish reproduction and endocrinology, fish health management, fish population dynamics, phycology/microbiology, stream ecology, and aquatic plant science and management. Research associations exist with the Whitney Marine Laboratory, College of Veterinary Medicine, National Biological Survey, National Marine Fisheries Service, Harbor Branch Oceanographic Institute, Mote Marine Laboratory, and several state agencies including the Florida Fish and Wildlife Conservation Commission.

Graduate studies in the Fisheries and Aquatic Sciences program emphasizes the needs and interests of individual students. Graduate students work closely with their faculty advisers to develop comprehensive programs of study. Admission to graduate study is based on the individual merits and interests of the applicant, fulfillment of the general admission requirements of the Graduate School, and acceptance by a faculty adviser.

Prospective applicants should request an application packet from Cynthia Hight, School of Forest Resources & Conservation, Fisheries and Aquatic Sciences, University of Florida, P.O. Box 110410, Gainesville, FL 32611.

The Fisheries and Aquatic Sciences program offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

College of Agricultural and Life Sciences

Forest Resources and Conservation Department

Degrees Offered with a Major in Fisheries and Aquatic Sciences

Doctor of Philosophy

without a concentration
concentration in Geographic Information Systems
concentration in Wetland Sciences

Master of Fisheries and Aquatic Sciences

without a concentration
concentration in Geographic Information Systems
concentration in Wetland Sciences

Master of Science

without a concentration
concentration in Geographic Information Systems
concentration in Wetland Sciences

Courses

- FAS 5203C: Biology of Fishes
- FAS 5255C: Diseases of Warmwater Fish
- FAS 5265
- 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 6337C: Fish Population Dynamics
- FAS 6355C: Fisheries Management
- FAS 6905: Individual Study
- FAS 6910: Supervised Research
- FAS 6932: Special Topics in Fisheries and Aquatic Sciences
- FAS 6933: Seminar
- 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

College of Agricultural and Life Sciences Courses

- ALS 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

Food and Resource Economics Department

Food and Resource Economics Program Information

The Food and Resource Economics Department offers the Master of Agribusiness (MAB) (non-thesis), Master of Science with Concentration in Agribusiness (MSAB) (non-thesis), Master of Science (thesis), and Doctor of Philosophy. Requirements for these degrees are given in the Graduate Degrees section of this catalog.

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 Tropical Conservation and Development

with a concentration in Toxicology

Master of Agribusiness

with a concentration in Tropical Conservation and Development

without a concentration

without a concentration

Master of Science - Agribusiness

Master of Science - Hydrologic Sciences

Master of Science - Toxicology

Master of Science - 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 5036: Contemporary Issues in Science
- 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

Master of Science

Food Science

Doctor of Philosophy

without a concentration
concentration in Toxicology

Food Science and Human Nutrition

College of Agricultural and Life Sciences

Food Science and Human Nutrition Department

Food Science and Human Nutrition Program

Programs are offered leading to the degrees of Master of Science and Doctor of Philosophy in food science and human nutrition. Minimum requirements for these degrees are given in the *General Information* section of this catalog.

The Ph.D. program includes an interdisciplinary Ph.D. in nutritional sciences or a concentration in food science. 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 M.S. programs also include thesis and nonthesis options. 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.

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 6126C: 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
- FOS 6646: Proteins and Enzymes in Food Systems
- FOS 6648: Carbohydrates in Food Systems
- 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

Forest Resources and Conservation Department

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 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 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 Tropical Conservation and Development
concentration in Wetland Sciences

Courses

- PCB 5530: Plant Molecular Biology and Genomics
- PCB 6528: Plant Cell and Developmental Biology
- SUR 6905: Special Problems in Geomatics
- SUR 6934: Topics in Geomatics

Forest Resources and Conservation Departmental Courses

- FAS 6272: Marine Ecological Processes
- FAS 6339c: Advanced Quantitative Fisheries Assessment
- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- 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
- FNR 6564: Ecohydrology
- 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 6555: Introduction to Quantitative Genetics
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 5625: Geographic Information Systems Analysis
- 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 6626: GIS Programming and Customization

College of Agricultural and Life Sciences Courses

- ALS 5036: Contemporary Issues in Science
- 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 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 6207: 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

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 5036: Contemporary Issues in Science
- 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 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5565: Advances in Vegetable Production Technology
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding
- HOS 6311: Seed Physiology
- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6535: Woody Plant Physiology
- 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 5036: Contemporary Issues in Science
- 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 6516: Plant Metabolism

Interdisciplinary Ecology

College of Agricultural and Life Sciences

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://snre.ufl.edu/people/affiliate.asp. 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 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 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

Microbiology and Cell Science Department

Degrees Offered with a Major in Microbiology and Cell Science

Doctor of Philosophy

without a concentration
concentration in Toxicology

Master of Science

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
- PCB 6176: Electron Microscopy of Biological Materials
- PCB 6176L: Laboratory in Electron Microscopy

College of Agricultural and Life Sciences Courses

- ALS 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

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, 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. Experience in nutritional science is recommended. 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, please contact Dr. Robert J. Cousins, Director at cousins@ufl.edu or Dr. Mitchell D. Knutson, Graduate Coordinator at mknutson@ufl.edu.

Degrees Offered with a Major in Nutritional Sciences

Doctor of Philosophy

without a concentration

concentration in Clinical and Translational Science

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 6126C: 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
- FOS 6646: Proteins and Enzymes in Food Systems
- FOS 6648: Carbohydrates in Food Systems
- 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

Plant Pathology Department

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
- PLS 5632C: Integrated Weed Management
- IPM 5305: Principles of Pesticides
- PLS 5652: Advanced Weed Science
- PLS 6623: Weed Ecology
- PLS 6626: Invasive Plant Ecology
- PLS 6655: Plant/Herbicide Interaction

Botany Courses

- BOT 6516: Plant Metabolism

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 Pathology
- 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

Forest Resources and Conservation Departmental Courses

- FAS 6272: Marine Ecological Processes
- FAS 6339c: Advanced Quantitative Fisheries Assessment
- FNR 5072C: Environmental Education Program Development
- FNR 5335: Agroforestry
- FNR 5462: Spatial Models and Decision Analysis
- FNR 5608: Research Planning
- 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
- FNR 6564: Ecohydrology
- 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 6555: Introduction to Quantitative Genetics
- SUR 5365: Digital Mapping
- SUR 5385: Remote Sensing Applications
- SUR 5391C: Geomatics: Spatial Foundations of GIS
- SUR 5425: Cadastral Information Systems
- SUR 5525: Least Squares Adjustment Computations
- SUR 5625: Geographic Information Systems Analysis
- 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 6626: GIS Programming and Customization

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 5515C: Greenhouse and Nursery Operations
- HOS 5516C: Advanced Production of Greenhouse and Nursery Crops
- HOS 5555: Tropical Fruit Production and Research in Florida
- HOS 5565: Advances in Vegetable Production Technology
- HOS 5711: Phytochemicals in Food & Health
- HOS 6201: Breeding Perennial Cultivars
- HOS 6236: Molecular Marker Assisted Plant Breeding
- HOS 6311: Seed Physiology
- HOS 6331: Postharvest Biology
- HOS 6345: Environmental Physiology
- HOS 6412: Nutrition of Horticultural Crops
- HOS 6523: Research and Development in Turfgrass Science
- HOS 6535: Woody Plant Physiology
- 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 5656C: Mycology
- 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
- 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 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 6373: Techniques in Microbial Ecology
- SWS 6448: Biogeochemistry of Wetlands
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6717: Soil Genesis and Classification
- 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

Plant Molecular and Cellular Biology Department

Plant Molecular and Cellular Biology Program Information

Director: A. M. Settles
Graduate Coordinator: A.L. Paul

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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

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 5656C: Mycology
- 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

Soil and Water Science Department

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

Courses

Soil and Water Science Departmental Courses

- ALS 5027: Reusable Learning Objects
- 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 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 6373: Techniques in Microbial Ecology
- SWS 6448: Biogeochemistry of Wetlands
- SWS 6454: Advanced Soil and Water Chemistry
- SWS 6456: Advanced Biogeochemistry
- SWS 6464C: Soil Mineralogy
- SWS 6622: Vadose Zone Hydrology
- SWS 6717: Soil Genesis and Classification
- 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 5036: Contemporary Issues in Science
- 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 of Agricultural and Life Sciences

Wildlife Ecology and Conservation Department

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 5036: Contemporary Issues in Science
- 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

Warrington College of Business Administration

- Accounting
- Information Systems and Operation Management
- Finance
- Insurance
- Management
- Marketing
- Real estate and urban analysis.

Accounting

Warrington College of Business Administration

Fisher School of Accounting

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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance

- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional Taxation

Business Administration (Accounting)

Warrington College of Business Administration

Fisher School of Accounting

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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice

- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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

- 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 6423: Data Analysis and 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 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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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)

Warrington College of Business Administration

Finance, Insurance, and Real Estate Department

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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 6423: Data Analysis and 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 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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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)

Warrington College of Business Administration

Information Systems and Operations Management Department

Business Administration (Information Systems and Operations Management)

The Information Systems and Operations Management (ISOM) Department offers graduate courses leading to the Master of Science (M.S.) degree, with a major in information systems and operations management; the Ph.D. degree in business administration; and concentrations in the Master of Business Administration (M.B.A.) program.

Doctor of Philosophy:

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.

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. A typical program of study, assuming that the student has the required background in business, calculus, and Java programming is as follows. Common methodological and substantive courses (regardless of specialization) are taken by most students:

--COT 5405: Analysis of Algorithms
--ECO 7404: Game Theory for Economics
--ECO 7408: Mathematical Methods and Applications to Economics
--ECO 7115: Microeconomic Theory
--ESI 6417: Linear Programming and Network Optimization
--ESI 6546: Stochastic Systems Analysis

--ESI 6418: Linear Programming Extensions and Applications
--ISM 6257: Intermediate Business Programming
--ISM 6258: Advanced Business Programming
--ISM 6259: Business Programming
--MAR 7626: Multivariate Statistical Methods in Marketing
--MAS 4105: Linear Algebra
--MAA 5228: Modern Analysis I
--STA 6326: Introduction to Theoretical Statistics I
--STA 6166: Statistical Methods in Research (or equivalent).

In addition to these courses, doctoral students are also required to attend doctoral seminar courses as and when they are offered, attend theISOM Workshop series, and take any additional courses in their chosen field.

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

- 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 6423: Data Analysis and 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

Accounting Departmental Courses

- ACG 5005: Financial Accounting**
- ACG 5065: Financial and Managerial Accounting
- ACG 5075: Managerial Accounting
- ACG 5226: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing

- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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 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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing

- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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.)

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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation

- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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

- 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 6423: Data Analysis and 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 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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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)

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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research

- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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

- 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 6423: Data Analysis and 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 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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing

- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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.)

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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management

- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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

- 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 6423: Data Analysis and 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 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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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)

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.

Combined Degree Program:

The Department participates in bachelor's/master's degree programs for the Master of Arts (M.A.) with a major in international business and Master of Science (M.S.) with a major in management. The M.A. with a major in 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.

Warrington College of Business Administration

Management Department

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 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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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
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- 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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

- 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 6423: Data Analysis and 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

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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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)

Warrington College of Business Administration

Marketing Department

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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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.)

Warrington College of Business Administration

Marketing Department

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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models

- MAR 7667: Building Mathematical Models in Marketing
- 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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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

- 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 6423: Data Analysis and 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 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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.)

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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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

- 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 6423: Data Analysis and 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 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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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

Warrington College of Business Administration

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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- HSA 6436: Health Economics

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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

Warrington College of Business Administration

Finance, Insurance, and Real Estate Department

Degrees Offered with a Major in Entrepreneurship

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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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

Warrington College of Business Administration

Finance, Insurance, and Real Estate Department

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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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

Warrington College of Business Administration

Information Systems and Operations Management Department

Information Systems and Operations Management Program Information

The Information Systems and Operations Management (ISOM) Department offers graduate courses leading to the Master of Science (M.S.) degree, with a major in information systems and operations management; the Ph.D. degree in business administration; and concentrations in the Master of Business Administration (M.B.A.) program.

Master of Science: The M.S. program provides computing, analytical, and application skills to be used in a business setting. The primary areas of emphasis in the M.S. program are 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. 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. Students without a bachelor’s degree in business or economics, the M.S. 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. candidates must complete 26 credits of core coursework:

--GEB 5212 : Professional Writing
--GEB 5215 : Professional Communication
--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
--QMB 6358 : Statistical Analysis for Managerial Decisions I
--QMB 6755 : Managerial Quantitative Analysis I
--QMB 6756 : Managerial Quantitative Analysis II.

All M.S. candidates must also complete 6 credits of track coursework for either the information technology or supply chain management 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
--MAN 6573 : Purchasing and Materials Management

These required courses total 32 credit hours. In addition, each M.S. 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. 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.

Professional Master of Science degree Information Systems and Operations Management with a concentration in Supply Chain Management: This program concentration uses the latest technology to provide professionals with unique skills for integrating information technology into the study of supply chain management. This 20-month online program starts in September and allows students with Internet access "to attend classes" and interact with faculty and classmates via such technology as e-mail, DVD, streaming video, synchronous group discussion software, asynchronous class presentation software, and multimedia courseware. Students visit campus 1 weekend (Saturday-Sunday) every 4 months.

Degrees Offered With a Major in Information Systems and Operations Management

Master of Science

without a concentration
concentration in Supply Chain Management

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 6423: Data Analysis and 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

Warrington College of Business Administration Courses

- GEB 5212: Professional Writing in Business
- GEB 5215: Professional Communication in Business
- GEB 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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

Warrington College of Business Administration

Management Department

Degrees Offered with a Major in International Business

Master of Arts

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 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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement

- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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

- 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 6423: Data Analysis and 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

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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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

Warrington College of Business Administration

Management Department

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 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: Mergers and Acquisitions and Consolidated Statements
- ACG 5505: Financial Reporting for Governmental and Not-for-Profit Organizations
- ACG 5637: Auditing I
- ACG 5815: Accounting Institutions and Professional Literature
- ACG 6136: Accounting Concepts and Financial Reporting
- ACG 6207: Accounting Issues in Financial Risk Management
- ACG 6255: International Accounting Issues
- ACG 6265: International Accounting and Taxation
- ACG 6387: Strategic Costing
- ACG 6635: Issues in Audit Practice
- ACG 6657: Auditing and Corporate Governance
- ACG 6695: Computer Assurance and Control
- ACG 6888: Foundations of Measurement
- 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 5065: Tax Professional Research
- TAX 6015: Taxation of Business Entities I
- TAX 6016: Taxation of Business Entities II
- TAX 6017: Taxation of Business Entities III
- TAX 6526: Advanced International Taxation
- TAX 6726: Executive Tax Planning
- TAX 6877: Multijurisdictional 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 7456: Practicum in Empirical Research
- 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
- ECS 6423: Latin American Business Economics
- 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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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

- 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 6423: Data Analysis and 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

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 6207: Marketing Channel Management
- 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 7576: Consumer Preference Formation and Change
- MAR 7588: Consumer Information Processing and Decision Making
- MAR 7589: Judgment and Decision Making
- MAR 7622: Design of Marketing Research
- MAR 7626: Multivariate Statistical Methods in Marketing
- MAR 7636: Research Methods in Marketing
- MAR 7666: Marketing Decision Models
- MAR 7667: Building Mathematical Models in Marketing
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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

Warrington College of Business Administration

Finance, Insurance, and Real Estate Department

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 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 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 5506: Corporate Intrapreneurship
- GEB 6119: Technology Venture Sequence
- 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 5216: Professional Communication
- GEB 5217: Executive Communication
- GEB 5225: Advanced Business Writing
- GEB 5929: Foundations Review
- 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

Dental Sciences

College of Dentistry

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 and Periodontics is September 1.
The application deadline of Orthodontics and Prosthodontics is October 1.
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 this catalog.

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

Architecture

College of Design, Construction, and Planning

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 & Sustainablility
- 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 6211: Preservation Topics, Issues, and Practice
- 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 7912: Advanced Design, Construction, and Planning Research II
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Building Construction

College of Design, Construction, and Planning

M.E. Rinker, Sr., School of Building Construction

Degrees Offered with a Major in Building Construction

Master of Building Construction

without a concentration
concentration in Historic Preservation
concentration in Sustainable Construction
concentration in Sustainable Design

Master of Science in Building Construction

without a concentration
concentration in Historic Preservation
concentration in Sustainable Construction
concentration in Sustainable Design

Courses

- BCN 6933: Advanced Construction Management
- BCN 6934: Construction Research

Building Construction 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 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 6771: Construction Work Acquisition
- 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 6211: Preservation Topics, Issues, and Practice
- 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 7912: Advanced Design, Construction, and Planning Research II
- 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 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
concentration in Historic Preservation
concentration in Interior Design

concentration in Landscape Architecture
concentration in Urban and Regional Planning

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 & Sustainablility
- 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

Building Construction 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 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 6771: Construction Work Acquisition
- 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 Acrhitects
- LAA 6382: Ecological and Environmental Policy
- LAA 6525L: Advanced Landscape Construction Design
- LAA 6536: Landscape Management
- LAA 6656C: Advanced Landscape Architectural Design
- LAA 6716: History of Landscape Architecture
- LAA 6905: Directed Study
- 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 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 6211: Preservation Topics, Issues, and Practice
- 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 7912: Advanced Design, Construction, and Planning Research II
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Historic Preservation

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 & Sustainablility
- 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

Building Construction 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 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 6771: Construction Work Acquisition
- 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 Acrhitects
- LAA 6382: Ecological and Environmental Policy
- LAA 6525L: Advanced Landscape Construction Design
- LAA 6536: Landscape Management
- LAA 6656C: Advanced Landscape Architectural Design
- LAA 6716: History of Landscape Architecture
- LAA 6905: Directed Study
- 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 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 6211: Preservation Topics, Issues, and Practice
- 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 7912: Advanced Design, Construction, and Planning Research II
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Interior Design

College of Design, Construction, and Planning

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 6211: Preservation Topics, Issues, and Practice
- 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 7912: Advanced Design, Construction, and Planning Research II

- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

International Construction Management

College of Design, Construction, and Planning

M.E. Rinker, Sr., School of Building Construction

Degrees Offered with a Major in International Construction Management

Master of International Construction Management

without a concentration
concentration in Historic Preservation

Building Construction 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 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 6771: Construction Work Acquisition
- 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 6211: Preservation Topics, Issues, and Practice
- 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 7912: Advanced Design, Construction, and Planning Research II
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Landscape Architecture

This program is offered through the Landscape Architecture Department in the College of Design, Construction, and Planning.

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 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.

Requirements for the MLA and PhD degrees are given in the General Information section of this catalog.

College of Design, Construction, and Planning

Landscape Architecture Department

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

Courses

- LAA 6931: Water Conservation through Site Design and Green Roofs
- LAA 6713: Cultural Landscapes

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 Acrhitects
- LAA 6382: Ecological and Environmental Policy
- LAA 6525L: Advanced Landscape Construction Design
- LAA 6536: Landscape Management
- LAA 6656C: Advanced Landscape Architectural Design
- LAA 6716: History of Landscape Architecture
- LAA 6905: Directed Study
- 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

College of Design, Construction, and Planning Courses

- DCP 6211: Preservation Topics, Issues, and Practice
- 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 7912: Advanced Design, Construction, and Planning Research II
- DCP 7940: Supervised Teaching

- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

Urban and Regional Planning

College of Design, Construction, and Planning

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 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 6211: Preservation Topics, Issues, and Practice
- 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 7912: Advanced Design, Construction, and Planning Research II
- DCP 7940: Supervised Teaching
- DCP 7949: Professional Internship
- DCP 7979: Advanced Research
- DCP 7980: Research for Doctoral Dissertation

College of Education

Curriculum and Instruction (CCD)

College of Education

School of Teaching and Learning

Degrees Offered with a Major in Curriculum and Instruction

Doctor of Education

Teaching and Learning Departmental Courses

- 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 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

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- 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 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAE 7899: Mathematics Education Seminar

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 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

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 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 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

- EDM 6005: The Emergent Middle School
- EDM 6235: 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 of Education

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 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 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

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- 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 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAE 7899: Mathematics Education Seminar

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 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

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 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 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

- EDM 6005: The Emergent Middle School
- EDM 6235: 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 of Education

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 Asessment & 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 Asessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6098: Students with Disabilities in Higher Education
- 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 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

Educational Leadership

College of Education

Human Development and Organizational Studies in Education Department

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

- 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 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 6048: Advising College Student Organizations
- 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

Elementary Education

College of Education

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 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 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

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- 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 6940: Supervised Teaching

- MAE 6943: Internship in College Teaching
- MAE 7899: Mathematics Education Seminar

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 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

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 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 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

- EDM 6005: The Emergent Middle School
- EDM 6235: 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 of Education

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 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
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- EDE 6910: Supervised Research
- EDE 6932: Special Topics
- EDE 6948: Internship in Elementary Schools
- EDE 7047: Issues in Teacher Education
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- 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
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- EME 5316: Educational Technology Management Issues
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- EME 5404: Instructional Computing II
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- EME 5432: Integrating Technology into Social Science Classroom
- EME 5433: Integrating Technology into Science Classroom
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- EME 6208: Designing Integrated Media Environments I
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- 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

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- 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 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAE 7899: Mathematics Education Seminar

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 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

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 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 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

- EDM 6005: The Emergent Middle School
- EDM 6235: 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 of Education

Human Development and Organizational Studies in Education Department

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

Specialist in 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
- 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 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 6048: Advising College Student Organizations
- 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

Marriage and Family Counseling

College of Education

Human Development and Organizational Studies in Education Department

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

- 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 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
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- EDH 6046: Diversity Issues in Higher Education
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- EDH 6067: Seminar: International Higher Education
- EDH 6305: College and University Teaching
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- 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

Mathematics Education

College of Education

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 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 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

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- 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 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAE 7899: Mathematics Education Seminar

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 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

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 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 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

- EDM 6005: The Emergent Middle School
- EDM 6235: 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 of Education

Human Development and Organizational Studies in Education Department

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

- 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 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 6048: Advising College Student Organizations
- 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 of Education

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 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 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

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- 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 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAE 7899: Mathematics Education Seminar

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 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

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 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 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

- EDM 6005: The Emergent Middle School
- EDM 6235: 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 of Education

Human Development and Organizational Studies in Education Department

Degrees Offered with a Major in Research and Evaluation Methodology

Doctor of Education

Doctor of Philosophy

Master of Arts in Education

Master of Education

Specialist in 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 6355: Educational Psychology: Personality Dynamics
- 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 7146: Advanced Cognitive Development
- 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

- 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 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 6048: Advising College Student Organizations
- 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 of Education

Human Development and Organizational Studies in Education Department

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

- 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 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 6048: Advising College Student Organizations
- 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
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- 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
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- 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
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- MHS 6480: Developmental Counseling Over the Life Span
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- MHS 6905: Individual Work
- MHS 6910: Supervised Research
- MHS 6940: Supervised Teaching
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- 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
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- MHS 7807: Group Supervision in Marriage and Family Counseling
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- 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 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 of Education

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 Asessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6098: Students with Disabilities in Higher Education
- 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 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

Science Education

College of Education

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 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 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

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- 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 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAE 7899: Mathematics Education Seminar

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 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

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 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 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

- EDM 6005: The Emergent Middle School
- EDM 6235: 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 of Education

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 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 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

Mathematics Education

- MAE 5327: Middle School Mathematics Methods
- MAE 5332: Secondary School Mathematics Methods and Assessment
- MAE 5395: Multicultural Mathematics Methods
- 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 6940: Supervised Teaching
- MAE 6943: Internship in College Teaching
- MAE 7899: Mathematics Education Seminar

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 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

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 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 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

- EDM 6005: The Emergent Middle School
- EDM 6235: 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 of Education

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: Students with Disabilities: Advanced Study of Characteristics and Services
- EEX 6072: Accessing Academic and Social Communities for Students with Disabilities

- 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: Assessment, Curriculum, and Instruction for Students with Mild Disabilities
- EEX 6234: Assessment, Curriculum, and Instruction for Students with Severe Disabilities
- EEX 6249: Advanced Strategies for Teaching Students with Disabilities
- EEX 6661: Teaching and Managing Behavior for Student Learning
- EEX 6750: Families and Transition for Students with Disabilities
- EEX 6786: Transdisciplinary and Transition Services in Special Education
- 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 6296: Differentiated Instruction
- EEX 7303: Inquiry in Special Education: Analysis of the Literature
- EEX 7304: Introduction to Field of Inquiry in Special Education
- EEX 7526: Grant Writing Seminar in Education
- EEX 7787: School Improvement for All Students
- EEX 7865: Internship: Special Education
- EEX 7428: Teacher Education in 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

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 Asessment & Evaluation
- EEC 7666: Theory and Research in Early Childhood Studies
- EEX 6098: Students with Disabilities in Higher Education
- 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 7709: Social-Emotional Learning & Play in Early Childhood
- SPS 7980: Research for Doctoral Dissertation

Student Personnel in Higher Education

College of Education

Human Development and Organizational Studies in Education Department

Degrees Offered with a Major in Student Personnel in Higher Education

Master of Arts in Education

Master of Education

Specialist in 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
- 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 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 6048: Advising College Student Organizations
- 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

College of Engineering

Aerospace Engineering

College of Engineering

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
- 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 6595: Bone 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 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 5591: Biometrics
- 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 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 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 6597: Mechanics of Gait
- 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

- College of Agricultural and Life Sciences
- College of Engineering

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 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 6252: Advanced Soil and Water Management Engineering
- ABE 6254: Simulation of Agricultural Watershed Systems
- ABE 6037C: Remote Sensing in Hydrology
- 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 6265: Vadose Zone Modeling
- ABE 7979: Advanced Research
- ABE 7980: Research for Doctoral Dissertation
- ABE 5038: Recent Developments and Applications in Biosensors
- 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
- 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 of Engineering

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 5402: Biomedical Engineering and Physiology II
- 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 6088: BME Problem Based Learning II
- BME 6221: Biomolecular Cell Mechanics

- BME 6322: Dynamics of Cellular Processes
- 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
- CAP 5416: Computer Vision
- CAP 5515: Computational Molecular Biology
- CAP 6516: Medical Image Analysis
- ECH 6126: Thermodynamics of Reaction and Phase Equilibria
- ECH 6726: Interfacial Phenomena I
- ECH 6727: Interfacial Phenomena II
- EEL 6502: Adaptive Signal Processing
- EEL 6562: Image Processing and Computer Vision
- EEL 6814: Neural Networks for Signal Processing
- EEL 6825: Pattern Recognition and Intelligent Systems
- EGM 5111L: Experimental Stress Analysis
- EGM 5533: Applied Elasticity and Advanced Mechanics of Solids
- EGM 5584: Biomechanics of Soft Tissue
- EGM 6321: Principles of Engineering Analysis I
- EGM 6322: Principles of Engineering Analysis II
- EGM 6570: Principles of Fracture Mechanics
- EGM 6595: Bone Mechanics
- EGM 6611: Continuum Mechanics
- EGM 6812: Fluid Mechanics I
- EGM 6813: Fluid Mechanics II
- EGM 6855: Bio-Fluid Mechanics and Bio-Heat Transfer
- EMA 6105: Fundamentals and Applications of Surface Science
- EMA 6165: Polymer Physical Science

- EMA 6461: Polymer Characterization
- EMA 6580: Science of Biomaterials I
- EML 5591: Biometrics
- EML 5595: Mechanics of the Human Locomotor System
- EML 5598: Orthopedic Biomechanics
- EML 6597: Mechanics of Gait
- 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 of Engineering

Chemical Engineering Department

Degrees Offered with a Major in Chemical Engineering

Doctor of Philosophy

Engineer

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 of Engineering

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 6207
- 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 and Drainage Problems in Geotechnical Engineering
- 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 6706: Advanced Reinforced Concrete
- CES 6855: Condition Assessment of Structures
- CGN 5115
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5135: Project Optimization Using Value Engineering and TQM
- CGN 5315: Civil Engineering Systems
- CGN 5508
- CGN 5605: Public Works Planning
- 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 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 5255
- 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 5135: Project Optimization Using Value Engineering and TQM
- 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

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 of Engineering

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

Civil and Coastal Engineering Departmental Courses

- CES 6571: Design of Temporary Structures
- CES 6585: Wind Engineering
- CGN 5125: Legal Aspects of Civil Engineering
- CGN 5135: Project Optimization Using Value Engineering and TQM
- 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

Coastal and Oceanographic Engineering

- EGM 5816: 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
- OCP 6364: Engineering Water Wave Models
- OCP 6655

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 of Engineering

Computer and Information Science and Engineering Department

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 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 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 of Engineering

Computer and Information Science and Engineering Department

Digital Arts and Sciences Program

Master of Arts degree in digital arts and sciences: The Master of Arts degree in digital arts and sciences (DAS) is a 2-year, interdisciplinary program. 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

Master of Science

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 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 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 5520: Computational Geometry

- COT 5615: Mathematics for Intelligent Systems
- COT 6315: Formal Languages and Computation Theory

Electrical and Computer Engineering

College of Engineering

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

- EEE 5317C: Introduction to Power Electronics
- EEE 5320: Bipolar Analog IC Design
- EEE 5322: VLSI Circuits and Technology
- EEE 5336L: Solid-State Technology Laboratory
- EEE 5400: Future of Microelectronics Technology
- EEE 5405: Microelectronic Fabrication Technologies
- EEE 5426: Introduction to Nanodevices
- 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 5447: Laser Theory and Design
- EEL 5451L: Photonics Laboratory
- EEL 5462: Advanced Antenna Systems
- EEL 5490: Lightning
- EEL 5525: Foundations of Digital Signal Processing
- EEL 5544: Noise in Linear Systems
- EEL 5546: Electronic Countermeasures
- EEL 5547: Introduction to Radar
- 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 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 6502: Adaptive Signal Processing
- EEL 6503: Spread Spectrum
- EEL 6507: Queuing Theory and Data Communications
- EEL 6509: Wireless Communication
- EEL 6527: Digital Filtering
- EEL 6532: Information Theory
- EEL 6533: Statistical Decision Theory
- EEL 6535: Digital Communications
- EEL 6537: Spectral Estimation
- EEL 6550: Error Correction Coding
- EEL 6562: Image Processing and Computer Vision
- EEL 6586: Automatic Speech Processing
- EEL 6591: Wireless Networks
- EEL 6614: Modern Control Theory
- EEL 6617: Linear Multivariable Control
- EEL 6619: Robust Control Systems
- EEL 6706: Fault-Tolerant Computer Architecture
- EEL 6763: Parallel Computer Architecture
- EEL 6769: Hardware-Software Interactions: Nonnumeric Processing
- EEL 6785: High-Performance Computer Networks
- 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 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 of Engineering

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 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 6318: Principles of Industrial Ecology
- 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 6508: Wetland Hydrology
- ENV 6510: Groundwater Restoration
- ENV 6511: Biological Wastewater Treatment
- ENV 6556: Advanced Waste Treatment Operations
- 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

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 of Engineering

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 of Engineering

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 Engineering

College of Engineering

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
- 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 6595: Bone 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 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 5591: Biometrics
- 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 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 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 6597: Mechanics of Gait
- 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 of Engineering

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 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 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 6XXX
- 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 Fine Arts

College of Fine 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.

Follow these links for more information about UF's College of Fine Arts graduate programs:

Fine Arts Departments
Fine Arts Courses

Art

College of Fine Arts

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 ceramics, creative photography, drawing, painting, printmaking, sculpture, graphic design, and art and technology. 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: Individual 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: Installation Using Digital Processes
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Digital Media 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 Fine 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 of Fine Arts

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, 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
- Send up to 10 images or photographs of student art work and a sample of curriculum materials if available
- 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: Individual 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: Installation Using Digital Processes
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Digital Media 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 Fine 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 of Fine Arts

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: Individual 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: Installation Using Digital Processes
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Digital Media 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 Fine 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 Arts and Sciences (Fine Arts)

College of Fine Arts

Digital Worlds Institute

Digital Arts and Sciences Program

Master of Arts degree in digital arts and sciences: The Master of Arts degree in digital arts and sciences (DAS) is a 2-year, interdisciplinary program. 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

College of Fine 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 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 and Animation
- 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

Museology

College of Fine Arts

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: Individual 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: Installation Using Digital Processes
- ART 6897: Professional Practices for the Visual Artist
- ART 6910C: Supervised Research
- ART 6925C: Digital Media 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 Fine 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 of Fine Arts

Music Department

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

College of Fine 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 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 6444: Materials and Methods of String Class Teaching
- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- 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 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 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
- MVV 6651: Vocal Pedagogy

Music Education

College of Fine Arts

Music Department

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 Fine 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 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 6444: Materials and Methods of String Class Teaching
- MUE 6497: Public School Orchestral Literature
- MUE 6647: Trends in Teaching and Learning Music
- 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 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 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
- MVV 6651: Vocal Pedagogy

Theatre

College of Fine Arts

School of Theatre and Dance

Degrees Offered with a Major in Theatre

Master of Fine Arts

College of Fine 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

Theatre and Dance Departmental Courses

- ARC 6670: Lighting Design Seminar
- DAN 6436: Laban Movement Analysis
- DAA 6757: Pilates Technique for the Dancer
- DAA 6905: 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
- 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

College of Health and Human Performance

Applied Physiology and Kinesiology

College of Health and Human Performance

Applied Physiology and Kinesiology Department

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 6615: Special Physical Education Assessment and Curriculum Techniques
- PET 6706: Research on Teaching Physical Education
- PET 6716: Risk Management in Sport and Physical Activities
- 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 of Health and Human Performance

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

Courses

- 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
- HSA 5103: Introduction to the U.S. Health Care System
- HSA 5174: Fundamentals of Health Care Finance
- PET 6615: Special Physical Education Assessment and Curriculum Techniques
- PET 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 6011: Epidemiology Methods II
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6102: Introduction to Public Health Administrative Systems
- PHC 6104: Evidence-Based Management of Public Health Programs
- PHC 6153: Public Policy and Aging
- PHC 6162: Public Health Grant Writing
- PHC 6220: Overview of Long-Term Care
- PHC 6309: Environmental Justice Issues in Public Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6405: Theoretical Foundations of Public Health
- PHC 6410: Psychological, Behavioral, and Social Issues in Public Health

- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6716: Survey Research Methods
- PHC 6717: Theory and Methods in Public Health Disability Research
- PHC 6912: Special Project: Independent Research
- PHC 6913: Biostatistics Project
- PHC 6930: Integrated Public Health Seminar
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- STA 6207: Basic Design and Analysis of Experiments

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 6615: Special Physical Education Assessment and Curriculum Techniques
- PET 6706: Research on Teaching Physical Education
- PET 6716: Risk Management in Sport and Physical Activities
- 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

- 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
- LEI 5188: Trends in Leisure Studies
- LEI 5121: Outdoor Recreation and Park Management
- LEI 6108: Contemporary Theories of Recreation and Leisure
- LEI 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6515: Legal 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 6704: Issues in Therapeutic Recreation
- LEI 6325: Ecotourism
- LEI 6336: Tourism Planning and Development
- LEI 6326: Sport Tourism
- LEI 6351: Heritage 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 7708: Conceptual Issues in Therapeutic Recreation
- 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
- PEQ 5127: Advanced Instructors of Adapted Aquatics
- PET 5655C: Medical Aspects of Individuals with Disabilities
- PET 5936: Special Topics/Seminars
- PET 6426: Advanced Curriculum in Movement Pedagogy
- PET 6706: Research on Teaching Physical Education
- PET 6934: Seminar in Special Physical Education
- 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 6940: Advanced Practicum in Exercise and Sport Science
- HFT 6076: Introduction to Hospitality and Tourism
- HFT 6608: Hospitality Law and Risk Management
- HFT 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 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6515: Legal 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 6325: Ecotourism
- LEI 6336: Tourism Planning and Development
- LEI 6326: Sport Tourism
- LEI 6351: Heritage Tourism
- LEI 6704: Issues in Therapeutic Recreation
- 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 7708: Conceptual Issues in Therapeutic Recreation
- 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 5936: Special Topics/Seminars
- PET 6716: Risk Management in Sport and Physical Activities
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- 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 of Health and Human Performance

Department of Health Education & Behavior

Degrees Offered with a Major in Health Education and Behavior

Master of Science

Courses

- HFT 6076: Introduction to Hospitality and Tourism

- HFT 6608: Hospitality Law and Risk Management
- 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 Departmental Courses

- 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
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- HSC 5138: Human Sexuality
- HSC 5142: Drug Education
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- 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
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- HSC 7905: Advanced Independent Study in Health Education
- HSC 7937: Advanced Seminar in Health Education
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- LEI 6351: Heritage Tourism
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- 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 7708: Conceptual Issues in Therapeutic Recreation
- 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
- PEQ 5127: Advanced Instructors of Adapted Aquatics
- PET 5655C: Medical Aspects of Individuals with Disabilities
- PET 5936: Special Topics/Seminars
- PET 6426: Advanced Curriculum in Movement Pedagogy
- PET 6706: Research on Teaching Physical Education
- PET 6934: Seminar in Special Physical Education
- 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 of Health and Human Performance

Tourism, Recreation, and Sport Management Department

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 6940: Advanced Practicum in Exercise and Sport Science
- HFT 6076: Introduction to Hospitality and Tourism
- HFT 6608: Hospitality Law and Risk Management
- HFT 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 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6515: Legal Issues in Recreation, Parks, and Tourism
- LEI 6557: Recreation Management/Development in the Coastal Zone
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- LEI 6325: Ecotourism
- LEI 6336: Tourism Planning and Development
- LEI 6326: Sport Tourism
- LEI 6351: Heritage Tourism
- LEI 6704: Issues in Therapeutic Recreation
- 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 7708: Conceptual Issues in Therapeutic Recreation
- 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 5936: Special Topics/Seminars
- PET 6716: Risk Management in Sport and Physical Activities
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- 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 of Health and Human Performance

Tourism, Recreation, and Sport Management Department

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 6940: Advanced Practicum in Exercise and Sport Science
- HFT 6076: Introduction to Hospitality and Tourism
- HFT 6608: Hospitality Law and Risk Management
- HFT 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 6439: Campus Recreation Administration and Programming
- LEI 6513: Administrative Procedures in Leisure Services
- LEI 6514: Administrative Issues in Recreation, Parks, and Tourism
- LEI 6515: Legal 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 6325: Ecotourism
- LEI 6336: Tourism Planning and Development
- LEI 6326: Sport Tourism
- LEI 6351: Heritage Tourism
- LEI 6704: Issues in Therapeutic Recreation

- 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 7708: Conceptual Issues in Therapeutic Recreation
- 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 5936: Special Topics/Seminars
- PET 6716: Risk Management in Sport and Physical Activities
- PET 6947: Graduate Internship in Exercise and Sport Sciences
- PET 6971: Research for Master's Thesis
- 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

Advertising

College of Journalism and Communications

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 Communcation
- 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 of Journalism and Communications

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
- 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 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

Fredric G. 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.

Law Courses
Graduate Departments within Levin College of Law

Comparative Law

Fredric G. Levin College of Law

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 LLM 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 7681: Consumption 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

Fredric G. Levin College of Law

Environmental and Land Use Law Department

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 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 7681: Consumption 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

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.

Fredric G. Levin College of Law

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 7681: Consumption 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

Fredric G. Levin College of Law

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 7681: Consumption 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

College of Liberal Arts and Sciences

Dean*:* P. J. D'Anieri
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.

CLAS Courses
Departments within the College of Liberal Arts and Sciences

Animal Molecular and Cellular Biology

- College of Agricultural and Life Sciences
- College of Liberal Arts and Sciences
- College of Veterinary Medicine

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 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
- ANS 6706: Environmental Physiology of Domestic Animals
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: The Rumen and Its Microbes
- 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 6065: Fundamentals of Cancer Biology
- GMS 6421: Cell Biology
- 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
- PCB 6176: Electron Microscopy of Biological Materials
- 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 of Liberal Arts and Sciences

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://web.anthro.ufl.edu. Graduate training is offered in cultural anthropology, archeology, and biological anthropology.

Students may opt for a general four-field track and an interdisciplinary track. The general track allows students more exposure to the four subfields of anthropology, as well as a specialization within anthropology at the Ph.D. level. The interdisciplinary alternative allows students to combine anthropology with course work and training in some outside discipline.

The department generally requires applicants to have acceptable scores on the GRE (verbal, quantitative, and analytical 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. 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 qualifying exams combined with a high-quality paper or research report. With their adviser's permission, they may opt to bypass the M.A. Knowledge of a foreign language or of statistics may also be required by the student's supervisory committee.

Students enrolled in the M.A. program who wish to continue their studies for a Ph.D. must apply to the Department for certification. In most cases, candidates for the Ph.D. must achieve competency in a language other than English. Entering students who have earned a master's degree may apply for direct admission to the doctoral program.

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 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 5012: Fantastic Anthropology and Fringe Science
- ANG 5255: Rural Peoples in the Modern World
- 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 5488: Geospatial Analysis in Cultural Anthropology
- ANG 5531: Culture and Nutrition
- ANG 5485: Research Design in Anthropology

- ANG 5486: Computing for Anthropologists
- ANG 5743: Human Rights Missions in Forensic Anthropology
- ANG 5744: International Forensic Fieldwork in Human Rights
- ANG 5525: Human Osteology and Osteometry
- 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 5824L: Field Sessions in Archeology
- ANG 5XXXB
- ANG 6155: Southeastern U.S. Prehistory
- ANG 6034: Seminar in Anthropological History and Theory
- ANG 6086: Historical Ecology
- ANG 6452: Race and Racism in Anthropological Theory
- 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 6161: Problems in Caribbean Prehistory
- ANG 6120C: Environmental Archaeology
- ANG 6146: Archaeology of Maritime Adaptations
- ANG 6122C: Archaeological Ceramics
- ANG 6128: Lithic Technology
- 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 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 6241: Special Topics in Ecology of Religion
- 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 6408
- ANG 6407: Sickness and Power
- ANG 6421: Landscape, Place, Dwelling

- ANG 6481: Research Methods in Cognitive Anthropology
- ANG 6483L: Anthropology of Science
- ANG 6453: Human Rights in Cross-Cultural Perspective
- ANG 6591L: Advanced Molecular Anthropology Laboratory
- ANG 6592: Seminar in Molecular Anthropology
- ANG 6593L: Biological Anthropology Laboratory
- ANG 6532: Molecular Genetics of Disease
- ANG 6478: Evolution of Culture
- ANG 6511: Seminar in Physical Anthropology
- ANG 6514: Human Origins
- ANG 6524: Skeletal Mechanics in Biological Anthropology
- ANG 6547: Human Adaptation
- ANG 6552: Primate Behavior
- ANG 6553: Primate Cognition
- ANG 6555: Issues in Evolutionary Anthropology
- ANG 6583: Primate Functional Morphology
- ANG 6589: Behavioral Decisions Among Human and Nonhuman Primates
- 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 6XXC
- ANG 6xxxA
- ANG 6xxxB
- ANG 6XXXF
- ANG 6XXXH
- ANG 6XXXI
- ANG 6XXXJ
- ANG 6XXXK
- ANG 6XXXL
- ANG 6XXXM
- ANG 6XXXN
- ANG 7979: Advanced Research
- ANG 7980: Research for Doctoral Dissertation

Astronomy

College of Liberal Arts and Sciences

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 of Liberal Arts and Sciences

Biology Department

Botany Program Information

Chair: *C. Osenburg*
Graduate Coordinator: *B. Barbazuk*

The Department of Botany offers graduate work 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 General Information 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

Courses

- BOT 5305: Paleobotany
- BOT 5225C: Plant Anatomy
- 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 5XXX
- BOT 6508C
- BOT 6566: Plant Growth and Development
- BOT 6716C: Advanced Taxonomy

- 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 6176: Electron Microscopy of Biological Materials
- PCB 6176L: Laboratory in Electron Microscopy
- PCB 6356C
- BOT 6726C: Principles of Systematic Biology

Botany Courses

- BOT 6516: Plant Metabolism

Chemistry

College of Liberal Arts and Sciences

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

- 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

Classical Studies

College of Liberal Arts and Sciences

Classics Department

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

Computer Science

College of Liberal Arts and Sciences

Computer and Information Science and Engineering Department

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 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 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 of Liberal Arts and Sciences

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 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 of Liberal Arts and Sciences

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 of Liberal Arts and Sciences

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 6657: Alcohol, Drugs, and 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 of Liberal Arts and Sciences

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 of Liberal Arts and Sciences

Language, Literature and Culture Department

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 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 6207: 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

Geography

College of Liberal Arts and Sciences

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

Master of Science in Teaching

without a concentration
concentration in Geographic Information Systems
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
- GIS 6425C: GIS Models for Public Health
- GEO 6429: Seminar: Cultural Geography
- GEO 6435: Seminar in Population
- GEO 6451: Medical Geography
- GEO 6495: Environment and Behavior
- GEO 6509: Seminar in Business Geography
- GEO 6558: Geography of Inequality in Africa
- 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
- 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
- MET 5504: Weather and Forecasting
- MET 6530: Hurricanes
- MET 6565: Seminar in Atmospheric Teleconnections
- MET 6752: Atmospheric Data Analysis

Geology

College of Liberal Arts and Sciences

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 of Liberal Arts and Sciences

Language, Literature and Culture Department

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

History

College of Liberal Arts and Sciences

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.

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. Students in this program are not eligible for departmentally controlled financial aid.

Doctor of Philosophy requirements:

–Professional competence in your major field.
–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.
– 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
- AMH 6677: Civil Rights Movement
- 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 of Liberal Arts and Sciences

Classics Department

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

Latin American Studies

College of Liberal Arts and Sciences

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

Master of Arts in Teaching

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 of Liberal Arts and Sciences

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, pragmatic)
• 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://web.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 programs 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 General Information section of this catalog. This information, along with links to the application form, are available at http://web.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 Core

- LIN 6039: Studies in Etymology: The Roots of English
- LIN 6084: Introduction to Graduate Research
- LIN 6128: Historical Linguistics
- LIN 6129: Issues in Historical Linguistics
- LIN 6165: Field Methods
- LIN 6208: Phonetics for Linguists
- 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 6562: Discourse Grammar
- LIN 6571: Structure of Specific Language
- LIN 6642: Psychological Linguistics
- LIN 6804: Semantics I
- 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 7885: Discourse Analysis and Pragmatics
- LIN 7979: Advanced Research
- LIN 7980: Research for Doctoral Dissertation

Linguistics Departmental Courses

- LIN 5657: Gender and Language
- LIN 6208: Phonetics for Linguists
- LIN 6226: Advanced Phonetics
- LIN 6323: Phonology
- LIN 6402: Morphology
- LIN 6601: Sociolinguistics
- LIN 6622: Bilingualism
- LIN 6707: Psycholinguistics
- LIN 6708C: Methods in Psycholinguistics
- LIN 6720: Second Language Acquisition
- LIN 6741: Applied English Grammar
- LIN 6773: Topics in Computational Linguistics
- LIN 6796: Cognitive Neuroscience of Language
- LIN 6826: Introduction to Formal Pragmatics
- LIN 6856: Semantics II
- LIN 7641: Seminar in Language Variation
- LIN 7725: Topics in Second Language Acquisition
- TSL 6171: TESL I: Materials and Techniques
- TSL 6172: TESL II: Materials for Special Purposes
- TSL 6373: Methods of Teaching ESOL K-12
- 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

Mathematics

College of Liberal Arts and Sciences

Mathematics Department

Degrees

Doctor of Philosophy

Doctor of Philosophy - Imaging Science and Technology

Doctor of Philosophy - Quantitative Finance

Master of Arts

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 6217: Introduction to Calculus of Variations for Engineers and Physical Scientists
- 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 5157: Vector Analysis
- 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 of Liberal Arts and Sciences

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 of Liberal Arts and Sciences

Physics Department

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 6247: Chemical 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 of Liberal Arts and Sciences

Plant Molecular and Cellular Biology Department

Plant Molecular and Cellular Biology Program Information

Director: A. M. Settles
Graduate Coordinator: A.L. Paul

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

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 of Liberal Arts and Sciences

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 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
- POS 6502: 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 on these graduate programs, visit http://www.clas.ufl.edu/polisci/.

Degrees Offered with a Major in Political Science

Doctor of Philosophy

without a concentration

Master of Arts

without a concentration
concentration in Public Affairs
concentration in Political Campaigning

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 6015: Comparative Policy Analysis
- PUP 6315: Race, Gender, and Politics

Political Science - International Relations

College of Liberal Arts and Sciences

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.ning.

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 6015: Comparative Policy Analysis
- PUP 6315: Race, Gender, and Politics

Psychology

College of Liberal Arts and Sciences

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 teaching and 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 with GRE scores lower than 300 are usually not admitted to graduate study in psychology.

Co-major: The Department offers two co-major programs in conjunction with the Department of Educational Psychology leading to the Doctor of Philosophy degree in psychology and either educational psychology or 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 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 of Liberal Arts and Sciences

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 of Liberal Arts and Sciences

Language, Literature and Culture Department

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
- 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 6276: Spanish Postwar Narrative
- 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 of Liberal Arts and Sciences

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
- 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 6276: Spanish Postwar Narrative
- 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 of Liberal Arts and Sciences

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 of 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://www.soccrim.clas.ufl.edu. 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

- SYA 5933: Special Study in Sociology
- 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 7135: Sociology of Knowledge
- 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

Spanish

College of Liberal Arts and Sciences

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
- 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 6276: Spanish Postwar Narrative
- 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

College of Liberal Arts and Sciences

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

Courses

- STA 5106: Computer Programs in Statistical Analysis
- STA 5156
- 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
- STA 5701: Applied Multivariate Methods
- STA 5715: Applied Survival Analysis
- STA 57XX
- STA 5823: Stochastic Process Methods
- STA 5856: Applied Time Series Methods
- STA 58XX
- STA 6092: Applied Statistical Practice
- STA 6126: Statistical Methods in Social Research I
- STA 6127: Statistical Methods in Social Research II
- STA 6166: Statistical Methods in Research I
- STA 6167: Statistical Methods in Research II
- STA 6176: Introduction to Biostatistics
- STA 6177
- STA 6178: Genetic Data Analysis
- STA 6200
- STA 6201
- STA 6207: Basic Design and Analysis of Experiments
- STA 6208
- STA 6209: Design and Analysis of Experiments
- STA 6226: Sampling Theory and Application
- STA 6246: Theory of Linear Models
- STA 6247
- STA 6326: Introduction to Theoretical Statistics I
- STA 6327: Introduction to Theoretical Statistics II
- STA 6329: Matrix Algebra and Statistical Computing
- STA 6466
- STA 6467
- STA 6505: Analysis of Categorical Data
- STA 6526: Nonparametric Statistics
- STA 6662

- STA 6707: Analysis of Multivariate Data
- STA 6712
- STA 6826: Stochastic Processes
- STA 6857: Time Series Analysis
- STA 6866: 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 7828: Topics in Stochastic Processes
- STA 7934: Special Topics in Statistics
- STA 7979: Advanced Research
- STA 7980: Research for Doctoral Dissertation
- STA 7XXa
- STA 7XXX

Sustainable Development Practice

College of Liberal Arts and Sciences

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

College of Public Health and Health Professions Courses

Women's Studies

College of Liberal Arts and Sciences

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 of 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, contact Anita Anantharam, Graduate Coordinator, 203, aanita@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

Chair: C. Osenburg
Graduate Coordinator: B. Barbazuk

Complete faculty listing by department: Follow this link.

The Department of Zoology offers graduate programs leading to the Master of Science in Teaching, Master of Science, and Doctor of Philosophy degrees. 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.

College of Liberal Arts and Sciences

Biology Department

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

Courses

- PCB 5307C: Limnology
- PCB 5415C: Behavioral Ecology
- PCB 5459: Morphometrics
- PCB 5615: Molecular Evolution and Systematics
- PCB 6049: Seminar in Ecology
- PCB 6377C: Physiological Ecology of Vertebrates
- PCB 6447C: Community Ecology
- PCB 6496C: Stream Ecology
- PCB 6675C: Evolutionary Biogeography
- BOT 6726C: Principles of Systematic Biology
- PCB 6695: Seminar in Evolutionary Biology
- PCB 6815: Hormone Regulation of Invertebrate Behavior
- PGY 5246: Biophotography
- ZOO 5115C: Vertebrate Paleontology
- ZOO 5486
- ZOO 5486C: Mammalogy
- ZOO 5939: Seminar in Morphology
- 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 6515C: Ethology
- 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 6xxx
- ZOO 6xxxA
- ZOO 6xxxB
- ZOO 7979: Advanced Research
- ZOO 7980: Research for Doctoral Dissertation

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 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. For further information, visit http://idp.med.ufl.edu/.

Courses
Departments within the College of Medicine

Biochemistry and Molecular Biology

College of Medicine

Biochemistry and Molecular Biology Department

Degrees Offered with a Major in Biochemistry and Molecular Biology

Doctor of Philosophy

without a concentration
concentration in Toxicology
concentration in Mammalian Genetics
concentration in Imaging Science and Technology
concentration in Animal Molecular and Cellular 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 6296: Advanced Topics in Metabolic Control
- BCH 6415: Advanced Molecular and Cell Biology
- BCH 6740: Physical Biochemistry/Structural Biology
- BCH 6741C: Magnetic Resonance Imaging and Spectroscopy in Living Systems
- BCH 6743: Biochemical Energetics
- 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 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 6XXX
- 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 6875: Crystallography and Cryo-Electron Microscopy
- BCH 7980: BioChem Doctoral Research

College of Medicine Courses

- 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 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 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- 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 6121: Infectious Diseases
- 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 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 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 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 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 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 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 6845: Clinical & Translational Research Practicum
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- VME 6505: Autoimmunity
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies

Biostatistics (Medicine)

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 Influences 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 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

- 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 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 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- 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 6121: Infectious Diseases
- 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 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 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 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
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- GMS 6382: Special Topics in Immunology
- 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 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 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 6845: Clinical & Translational Research Practicum
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- VME 6505: Autoimmunity
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies

Epidemiology (Medicine)

Return to Department of Epidemiology

Specific course requirements, including biostatistical and other elective options, offered are described at the program website: (http://epidemiologyphd.health.ufl.edu/)

College of Medicine

Department

Epidemiology Department

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration
concentration in Clinical and Translational Science

Master of Science

without a concentration
concentration in Biostatistics
concentration in Health Management and Policy

Epidemiology Departmental Courses

- 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 6811: Grant Writing Skills for Clinical Research
- GMS 6812: Cancer Health Outcomes Assessment

- GMS 6813: Clinical Trials
- 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 6822: Measuring and Analyzing Health Outcomes II
- 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: Epidemiology and Health Policy
- 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 6846: Meta-Analysis in Clinical, Health Services Research and Public Health
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 6882: Directed Readings in Epidemiology and Health Policy
- GMS 6884: Research in Epidemiology and Health Policy
- GMS 6893: Clinical and Translational Science Seminar Series
- PHC 7902: Epidemiology Supervised Research Writing Circle
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- PHC 6000: Epidemiology Methods I
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6008: Cardiovascular Epidemiology
- PHC 6011: Epidemiology Methods II
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6016: Social Influences in Public Health
- PHC 6034: Epidemic Investigation
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6162: Public Health Grant Writing
- PHC 6405: Theoretical Foundations of Public Health
- PHC 6441: Health Disparities in the United States
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6716: Survey Research Methods
- PHC 6717: Theory and Methods in Public Health Disability Research
- PHC 6912: Special Project: Independent Research
- PHC 6937: Special Topics in Public Health

- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7056: Analysis of Longitudinal Data
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7066: Large Sample Theory
- PHC 7727: Grant Writing Skills in Epidemiology and Clinical Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- 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

Statistics Departmental Courses

- STA 5715: Applied Survival Analysis

College of Medicine Courses

- 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 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 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- 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 6121: Infectious Diseases
- 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 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 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 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 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 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 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 6845: Clinical & Translational Research Practicum
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- VME 6505: Autoimmunity
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies

Genetics and Genomics

- 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 6207: 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

- 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 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 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- 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 6121: Infectious Diseases
- 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 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 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 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6337: B Cell Development in Health and Disease
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- GMS 6382: Special Topics in Immunology
- 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 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 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 6845: Clinical & Translational Research Practicum
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- VME 6505: Autoimmunity
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies

Medical Sciences

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: L. B. Bloom and R. McKenna

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 6296: Advanced Topics in Metabolic Control
- 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 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 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 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 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: M. E. Boulton

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 6063: Mechanisms of Aging
- GMS 6064: Tumor Biology
- GMS 6065: Fundamentals of Cancer Biology
- GMS 6335: Advanced Stem Cell Biology: Tissue Engineering
- GMS 6336: Advanced Stem Cell Biology: Regenerative Medicine
- GMS 6381: Special Topics in Pathology
- 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

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 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 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 Simith, 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 Sumners , P.O. Box 100215, College of Medicine, Gainesville, FL 32610 or (352) 392-0740.

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 www.dental.ufl.edu/offices/oral-bio/.

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

- DEN 6680: Principles and Craniofacial Biology and Emerging Therapies
- DEN 6681: Craniofacial Pathobiology

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 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 Translational Biotechnology

College of Medicine Courses

- 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 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 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics
- GMS 6059: Gene Therapy from Bench to Bedside
- 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 6121: Infectious Diseases
- 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 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 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 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 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 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 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 6845: Clinical & Translational Research Practicum
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- VME 6505: Autoimmunity
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies

Medical Sciences (Health Outcomes and Policy)

College of Medicine

Department

Health Outcomes and Policy Department

Health Outcomes and Policy Program

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.

Health Outcomes and Policy Courses

- GMS 6800: Fundamentals of Epidemiology
- 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 6814: Molecular and Genetic Epidemiology
- 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: Epidemiology and Health Policy
- 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 6883: Practicum Experience 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
- GMS 7886: Health Outcomes and Policy PhD Seminar: Applied Research

Molecular Genetics and Microbiology

College of Medicine

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 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

- 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 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
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- GMS 6038: Bacterial Genetics and Physiology
- GMS 6039: Bacterial Pathogenesis
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- GMS 6052: Ion Channels of Excitable Membranes
- GMS 6053: Cancer Biology and Therapeutics

- GMS 6059: Gene Therapy from Bench to Bedside
- 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 6121: Infectious Diseases
- 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
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- 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 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 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 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 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 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 6845: Clinical & Translational Research Practicum
- GMS 6895: CTS Journal Club
- GMS 6903: Manuscript and Abstract Writing for Clinician/Scientists
- VME 6505: Autoimmunity
- GMS 6852: Community Engaged Research for Clinical Effectiveness and Implementation Science Studies

College of Nursing

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 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 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
- 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)
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- 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 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

Pharmaceutical Sciences (Medicinal Chemistry)

College of Pharmacy

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 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 6535: Principles of Nucleotide Activity
- PHA 6543: Pharmaceutical Chemistry II
- PHA 6840: Medicinal Chemistry of Drugs of Abuse
- 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
- 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 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
- PHA 6206: Introduction to Pharmaceutical Microeconomics
- PHA 6282: Pharmaceutical Policy Process
- PHA 6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- 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 Courses

- GMS 6403: Advanced Endocrinology
- 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

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

Pharmaceutical Sciences (Pharmaceutical Outcomes and Policy)

College of Pharmacy

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
- 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

- 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 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
- PHA 6206: Introduction to Pharmaceutical Microeconomics
- PHA 6282: Pharmaceutical Policy Process
- PHA 6283: Commercial Applications of Pharmacoeconomics

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 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 6535: Principles of Nucleotide Activity
- PHA 6543: Pharmaceutical Chemistry II
- PHA 6840: Medicinal Chemistry of Drugs of Abuse
- 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

Pharmaceutics Departmental Courses

- 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 Courses

- GMS 6403: Advanced Endocrinology
- 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

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

Pharmaceutical Sciences (Pharmaceutics)

College of Pharmacy

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

- 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

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 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 6535: Principles of Nucleotide Activity
- PHA 6543: Pharmaceutical Chemistry II
- PHA 6840: Medicinal Chemistry of Drugs of Abuse
- 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
- 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 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
- PHA 6206: Introduction to Pharmaceutical Microeconomics

- PHA 6282: Pharmaceutical Policy Process
- PHA 6283: Commercial Applications of Pharmacoeconomics

Pharmacodynamics Courses

- GMS 6403: Advanced Endocrinology
- 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

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

Pharmaceutical Sciences (Pharmacodynamics)

College of Pharmacy

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

- GMS 6403: Advanced Endocrinology
- 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

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 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 6535: Principles of Nucleotide Activity
- PHA 6543: Pharmaceutical Chemistry II

- PHA 6840: Medicinal Chemistry of Drugs of Abuse
- PHA 6851: Forensic Analysis of DNA
- PHA 6853: Biological Evidence and Serology
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- PHA 6905C: Research Procedures in Medicinal Chemistry
- PHA 6934: Seminar in Medicinal Chemistry
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- VME 6602: General Toxicology
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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

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
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- PHA 6269: Pharmaceutical Products and Public Policy
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- 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
- 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
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- PHA 6891: Introduction to Pharmacoepidemiology
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- PHA 6899: Advanced OB/GYN and Pediatric Pharmacoepidemiology
- PHA 6937: Topics in Pharmaceutical Administration
- PHA 6206: Introduction to Pharmaceutical Microeconomics
- PHA 6282: Pharmaceutical Policy Process
- PHA 6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- 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

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

- 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

Pharmaceutical Sciences (Pharmacotherapy and Translational Research)

Description to be added

College of Pharmacy

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

- 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 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 6535: Principles of Nucleotide Activity

- PHA 6543: Pharmaceutical Chemistry II
- PHA 6840: Medicinal Chemistry of Drugs of Abuse
- 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
- 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 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
- PHA 6206: Introduction to Pharmaceutical Microeconomics
- PHA 6282: Pharmaceutical Policy Process
- PHA 6283: Commercial Applications of Pharmacoeconomics

Pharmaceutics Departmental Courses

- 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 Courses

- GMS 6403: Advanced Endocrinology
- 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

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

College of Public Health and Health Professions

Audiology

College of Public Health and Health Professions

Speech, Language and Hearing Sciences Department

Degrees

Doctor of Audiology

Courses

Speech, Language and Hearing Sciences Departmental Courses

- 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 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 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 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

- HFT 6747: Marketing in Hospitality/Tourism
- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6935: Current Topics in Health Education
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- 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 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- 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 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 Psychologicial 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 Labroratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for 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 6722: Environmental and Global Health Research Methods Rotation
- PHC 6762: International Public Health
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6931: Seminar in Contemporary Public Health Issues
- PHC 6933: Special Project: Public Health Scholarly Paper
- 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 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing Skills in Epidemiology and Clinical Research
- 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
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- SWS 5551: Soils, Water, and Public Health

Biostatistics (PHHP)

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 medicineWe 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/.

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 Influences 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 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

- HFT 6747: Marketing in Hospitality/Tourism
- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6935: Current Topics in Health Education
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6006: An Introduction to One Health Problem Solving

- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- 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 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- 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 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 Psychologicial 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 Labroratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for 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 6722: Environmental and Global Health Research Methods Rotation
- PHC 6762: International Public Health
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6931: Seminar in Contemporary Public Health Issues
- PHC 6933: Special Project: Public Health Scholarly Paper
- 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 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing Skills in Epidemiology and Clinical Research
- 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
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- SWS 5551: Soils, Water, and Public Health

Communication Sciences and Disorders

College of Public Health and Health Professions

Speech, Language and Hearing Sciences Department

Degrees

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
- 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 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 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

- HFT 6747: Marketing in Hospitality/Tourism
- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6935: Current Topics in Health Education
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- 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 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- 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 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 6419: Biomedical and Psychologicial Aspects of Very Late Life
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- PHC 6441: Health Disparities in the United States
- PHC 6445: Global Public Health and Development II
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- PHC 6900: Environmental and Global Health Journal Club
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- PHC 6931: Seminar in Contemporary Public Health Issues
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- PHC 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing Skills in Epidemiology and Clinical Research
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- PHC 7907: Social and Behavioral Science Journal Club
- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- SWS 5551: Soils, Water, and Public Health

Epidemiology (PHHP)

Return to Department of Epidemiology

The epidemiology PhD program requires a minimum of 90 semester credits beyond the bachelor's degree. The requirements include a minimum of 9 credits in epidemiology foundation course work, which in most cases will be satisfied by a student's master's degree. It is anticipated that most students may have a directly related master's degrees (i.e. Master of Science in epidemiology or Master of Public Health with a concentration in epidemiology or biostatistics). Regardless of master's degree, all students will need to demonstrate that they have successfully completed the foundation courses in order to take more advanced epidemiology course work. All students must complete a 37-38 hours of epidemiology core courses, 15 credits of a concentration, 14-15 credits of general electives (which can be satisfied by master's degree course work if approved by the supervisory committee), and 12 credits of dissertation work. Students must also complete a teaching experience, which can be fulfilled via a teaching assistantship or other experience requiring college-level classroom teaching. All entering students who do not hold MPH or equivalent degrees are also required to complete an introduction to public health course.

The University of Florida PhD program is mentor driven. All applicants are reviewed with the expectation that they will work with a primary mentor and receive graduate assistant funding to work on research projects and/or teach, if a full-time student during their course of studies.

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 Association of Schools 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.

Specific course requirements, including biostatistical and other elective options, offered are described at the program website: (http://epidemiologyphd.health.ufl.edu/)

College of Public Health and Health Professions

Department

Epidemiology Department

Degrees Offered with a Major in Epidemiology

Doctor of Philosophy

without a concentration
concentration in Clinical and Translational Science

Master of Science

Epidemiology Departmental Courses

- 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 6811: Grant Writing Skills for Clinical Research
- GMS 6812: Cancer Health Outcomes Assessment
- GMS 6813: Clinical Trials
- 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 6822: Measuring and Analyzing Health Outcomes II
- 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: Epidemiology and Health Policy
- 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 6846: Meta-Analysis in Clinical, Health Services Research and Public Health
- GMS 6861: Applied Biostatistics I
- GMS 6862: Applied Biostatistics II
- GMS 6863: Analysis and Study Design for High Dimension, Low Sample Size Data
- GMS 6882: Directed Readings in Epidemiology and Health Policy
- GMS 6884: Research in Epidemiology and Health Policy
- GMS 6893: Clinical and Translational Science Seminar Series
- PHC 7902: Epidemiology Supervised Research Writing Circle
- GMS 7979: Advanced Research
- GMS 7980: Research for Doctoral Dissertation
- PHC 6000: Epidemiology Methods I
- PHC 6002: Epidemiology of Infectious Diseases
- PHC 6003: Epidemiology of Chronic Diseases and Disability
- PHC 6008: Cardiovascular Epidemiology
- PHC 6011: Epidemiology Methods II
- PHC 6014: Epidemiology, Prevention, and Control of Chronic Diseases II
- PHC 6016: Social Influences in Public Health
- PHC 6034: Epidemic Investigation
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6053: Regression Methods for the Health and Life Sciences
- PHC 6162: Public Health Grant Writing
- PHC 6405: Theoretical Foundations of Public Health
- PHC 6441: Health Disparities in the United States
- PHC 6517: Public Health Concepts in Infectious Diseases
- PHC 6711: Measurement in Epidemiology and Outcomes Research
- PHC 6716: Survey Research Methods
- PHC 6717: Theory and Methods in Public Health Disability Research
- PHC 6912: Special Project: Independent Research
- PHC 6937: Special Topics in Public Health
- PHC 6938: Oral and Craniofacial Epidemiology
- PHC 6946: Public Health Internship
- PHC 7000: Epidemiology Seminar II: Critical Evaluation, Research Proposals, and Methods
- PHC 7056: Analysis of Longitudinal Data
- PHC 7065: Critical Skills in Epidemiological Data Management
- PHC 7066: Large Sample Theory
- PHC 7727: Grant Writing Skills in Epidemiology and Clinical Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- 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

- HFT 6747: Marketing in Hospitality/Tourism
- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6935: Current Topics in Health Education
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
- PHC 6080: SAS for Public Health - Data
- PHC 6081: SAS for Public Health - Analysis
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- 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
- PHC 6346: Occupational and Environmental Health Among Agriculture Workers
- PHC 6370: Public Health Biology
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- PHC 7979: Advanced Research
- PHC 7980: Research for Doctoral Dissertation
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- RCS 6602: Forensic Rehabilitation Consultation II
- SWS 5551: Soils, Water, and Public Health

Health Administration

College of Public Health and Health Professions

Health Services Research, Management, and Policy Department

Degrees

Master of Health Administration

Health Administration Program Courses

- 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 6177: Advanced Health Care Finance
- HSA 6188: Strategic Management in Health Administration
- HSA 6196: Health Services Operations Management
- 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 6905: Individual Study in Health Administration
- HSA 6939: Capstone Seminar in Health Administration

Health Services Research, Management, and Policy Departmental Courses

- 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
- PHC 6313: Environmental Health Concepts in Public Health

College of Public Health and Health Professions Courses

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- PHC 6006: An Introduction to One Health Problem Solving
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- PHC 7980: Research for Doctoral Dissertation
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- SWS 5551: Soils, Water, and Public Health

Health Services Research

College of Public Health and Health Professions

Health Services Research, Management, and Policy Department

Degrees

Doctor of Philosophy

Health Services Research Program Courses

- HSA 6910: Supervised Research
- HSA 6911: Research Seminar in Health Services Research
- HSA 6930: Special Topics in Health Services Administration
- HSA 6940: Supervised Teaching
- 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

Health Services Research, Management, and Policy Departmental Courses

- 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
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- HSA 7938: Advanced Seminar in Health Services Research
- HSA 7979: Advanced Research
- HSA 7980: Research for Doctoral Dissertation
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College of Public Health and Health Professions Courses

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- HSC 6935: Current Topics in Health Education
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6006: An Introduction to One Health Problem Solving
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- PHC 6050: Statistical Methods for Health Sciences Research I
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- PHC 6063: Biostatistical Consulting
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- PHC 6081: SAS for Public Health - Analysis
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- RCS 6602: Forensic Rehabilitation Consultation II
- SWS 5551: Soils, Water, and Public Health

Occupational Therapy

College of Public Health and Health Professions

Occupational Therapy Department

Degrees

Master of Health Science

Master of Occupational Therapy

Courses

- OTH 5002: Foundations of Occupational Therapy
- OTH 5017
- OTH 5018
- OTH 5113C: Practicum in Applied Therapeutic Activities
- OTH 5114
- OTH 5115C: Therapeutic Skills II: Areas of Occupation
- OTH 5205
- OTH 5324: Psychosocial Intervention
- OTH 5326
- OTH 5419
- OTH 5425C
- OTH 5427C
- OTH 5435: Therapeutic Skills I
- OTH 5503C
- OTH 5505
- OTH 5702C
- 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 6275: Wellness and Disease Prevention of Chronic Conditions: Application in Occupational Therapy
- OTH 6424: Application of Motor Learning and Motor Control in Occupational Therapy
- OTH 6425L: Relation of Body Image and Perceptual Dysfunction to Occupation
- 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 6706
- 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 6750: Single System Design
- OTH 6760C: Protocol for Occupational Therapy
- OTH 6763: Evidence Based Practice
- OTH 6765: Seminar in Occupational Therapy Theory
- OTH 6771: Applied Research I
- OTH 6772: Applied Research II
- OTH 6780: Applied Research in Occupational Therapy
- 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

- HFT 6747: Marketing in Hospitality/Tourism
- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6935: Current Topics in Health Education
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- 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 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- 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 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 Psychologicial 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 Labroratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for 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 6722: Environmental and Global Health Research Methods Rotation
- PHC 6762: International Public Health
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6931: Seminar in Contemporary Public Health Issues
- PHC 6933: Special Project: Public Health Scholarly Paper
- 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 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing Skills in Epidemiology and Clinical Research
- 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
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- SWS 5551: Soils, Water, and Public Health

Psychology

College of Public Health and Health Professions

Clinical and Health Psychology Department

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

- HFT 6747: Marketing in Hospitality/Tourism
- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6935: Current Topics in Health Education
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- 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 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health
- PHC 6104: Evidence-Based Management of Public Health Programs
- 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 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 Psychologicial 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 6762: International Public Health
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- PHC 6905: Independent Study
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- 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 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing Skills in Epidemiology and Clinical Research
- 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
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II

- SWS 5551: Soils, Water, and Public Health

Public Health (M.P.H.)

Master of Public Health Program Information

College of Public Health and Health Professions

Director and Graduate Coordinator: M. Peoples-Sheps
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., or D.P.T 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

- HFT 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 6717: Theory and Methods in Public Health Disability Research
- PHC 7901: Epidemiology Literature Review and Critique (Journal Club)
- PHC 6905: Independent Study
- PHC 6913: Biostatistics Project
- PHC 6930: Integrated Public Health Seminar
- PHC 6931: 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 6207: Basic Design and Analysis of Experiments

Statistics Departmental Courses

- STA 5715: Applied Survival Analysis

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://www.mph.ufl.edu/concentrations/biostatistics.htm. 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, PHC 6317 Risk Communication, and either VME 6603 or VME 6606. Students may also choose two of the following courses: ENV 5105, EES 5245, FOS 5205, and SWS 5551. 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://www.mph.ufl.edu/concentrations/environmentalhealth.htm. 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 6052, 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://www.mph.ufl.edu/concentrations/epidemiology.htm. Please also visit the website of the Department of Epidemiology and Biostatistics for up-to-date information about other epidemiology programs and activities: http://ebs.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 6162: Public Health Grant Writing
- 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 5177, HSA 6115, HSA 6152, PHC 6104, PHC 6421, and PHC 6103. In addition, students take two 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://www.mph.ufl.edu/concentrations/managementpolicy.htm.

The website of Department of Health Services Research, Management, and Policy provides additional information about activities and other academic programs in the department: http://hsrmp.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 6937 (Special Topics: Public Health Information for Diverse Populations), and PHC 6937 (Special Topics: Foundations of Social and Behavioral Science Theory). In addition, they may choose two courses from six concentration electives (e.g., PHC 6762, PHC 6441). Social and behavioral science students complete their programs with an internship (PHC 9646) 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://www.mph.ufl.edu/concentrations/socialbehavioralsciences.htm.

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

- HFT 6747: Marketing in Hospitality/Tourism
- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6935: Current Topics in Health Education
- HSC 6939: Special Topics
- HSC 6940: Supervised Teaching
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- 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 6102: Introduction to Public Health Administrative Systems
- PHC 6103: Systems Thinking for Public Health

- PHC 6104: Evidence-Based Management of Public Health Programs
- 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 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 Psychologicial 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
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- PHC 6544: Health Behavior Interventions in Practice
- PHC 6561: Public Health Labroratory Techniques
- PHC 6585: Health Promotion and Disease Prevention
- PHC 6586: Interventions for 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 6722: Environmental and Global Health Research Methods Rotation
- PHC 6762: International Public Health
- PHC 6900: Environmental and Global Health Journal Club
- PHC 6905: Independent Study
- PHC 6917: Supervised Research Project
- PHC 6931: Seminar in Contemporary Public Health Issues
- PHC 6933: Special Project: Public Health Scholarly Paper

- 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 7056: Analysis of Longitudinal Data
- PHC 7066: Large Sample Theory
- PHC 7587: Theory Development and Testing in Behavioral & Community Public Health
- PHC 7727: Grant Writing Skills in Epidemiology and Clinical Research
- 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
- RCS 6601: Forensic Rehabilitation Consultation I
- RCS 6602: Forensic Rehabilitation Consultation II
- SWS 5551: Soils, Water, and Public Health

Public Health (Ph.D. - Environmental and Global Health)

College of Public Health and Health Professions

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

- HFT 6747: Marketing in Hospitality/Tourism
- HSC 5938: Special Topics
- HSC 6905: Independent Study
- HSC 6935: Current Topics in Health Education
- HSC 6939: Special Topics

- HSC 6940: Supervised Teaching
- PHC 6001: Principles of Epidemiology in Public Health
- PHC 6006: An Introduction to One Health Problem Solving
- PHC 6036: Environmental Infectious Diseases: A Molecular Approach
- PHC 6050: Statistical Methods for Health Sciences Research I
- PHC 6055: Biostatistical Computing Using R
- PHC 6063: Biostatistical Consulting
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- PHC 6413: Critical Incidents and Violence in Communities
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- PHC 6419: Biomedical and Psychologicial Aspects of Very Late Life
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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
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- RCS 6602: Forensic Rehabilitation Consultation II
- SWS 5551: Soils, Water, and Public Health

Public Health (Ph.D. - One Health)

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

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- SWS 5551: Soils, Water, and Public Health

Public Health (Ph.D. - Social and Behavioral Sciences)

College of Public Health and Health Professions

Behavioral Science and Community Health Department

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

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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
gmann@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/

Public Health (Ph.D.)

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

- HFT 6747: Marketing in Hospitality/Tourism
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- RCS 6601: Forensic Rehabilitation Consultation I
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- SWS 5551: Soils, Water, and Public Health

Rehabilitation Science

College of Public Health and Health Professions

Director: W. C. Mann.
Graduate Coordinator: M. Odom.

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.

College of Public Health and Health Professions

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

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College of Veterinary Medicine

Animal Molecular and Cellular Biology

- College of Agricultural and Life Sciences
- College of Liberal Arts and Sciences
- College of Veterinary Medicine

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 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
- ANS 6706: Environmental Physiology of Domestic Animals
- ANS 6707: Growth Physiology in Farm Animals
- ANS 6711: Current Topics in Equine Nutrition and Exercise Physiology
- ANS 6715: The Rumen and Its Microbes
- 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 6065: Fundamentals of Cancer Biology
- GMS 6421: Cell Biology
- 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
- PCB 6176: Electron Microscopy of Biological Materials
- 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 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 6207, 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

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 6051: Cruelty to Animals and Interpersonal Violence
- VME 6052: Animal Crime Scene Processing
- VME 6054: Scientific and Legal Principles of Forensic Evidence
- 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 6276
- VME 6421: Biology and Molecular Biology of Avian Viruses
- VME 6430
- VME 6430C: Contemporary Issues in Small Animal Surgery
- VME 6464: Molecular Pathogenesis
- VME 6575: Veterinary Forensic Pathology
- 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 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 6937
- 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

- GMS 6403: Advanced Endocrinology
- 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

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.

Agroforestry

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.

Animal Molecular and Cell Biology

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

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

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

Hydrologic Sciences

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 nine 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, Horticultural 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 five topics: hydrologic systems, hydrologic chemistry, hydrologic biology, hydrologic techniques and analysis, and hydrologic policy and management. Additional elective courses (11 to 14 credits for M.S.; 30 credits for Ph.D.)

allow specialization in one or more of these topics. Research projects involving faculty from several academic units can provide the basis for thesis and dissertation research topics.

Assistantships supported by extramural grants are available. Tuition waivers may be available to students who qualify. 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. Mark Newman, UF Water Institute, P.O. Box 116601, Gainesville FL 32611, Phone (352) 392-5893, E-mail markn@ufl.edu; or visit the Hydrologic Sciences Academic Cluster website (http://www.hydrology.ufl.edu).

Quantitative Finance

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.

Sustainable Architecture

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

Sustainable Design

The Interdisciplinary Concentration and Certificate in Sustainable Design (ICCSD) 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 ICCSD should notify their department or school as early in the graduate program as possible. To participate in the ICCSD, a student must be admitted and enrolled in one of the departments participating in the ICCSD. 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 ICCSD, 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 ICCSD, 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.

Tropical Conservation and Development

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.

Wetland Sciences

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).

Women's and Gender Studies

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.

Graduate Certificates

For the most current list of Graduate Certificates available, visit the Graduate School's website:
http://graduateschool.ufl.edu/academics/graduate-certificates-list

For information about the policies governing certificates, visit the Office of the Provost's website:
http://www.aa.ufl.edu/certificates

Academic Assessment Plans

Visit http://assessment.aa.ufl.edu/graduate-academic-assessment-plans for the Academic Assessment Plans for each graduate degree program.

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 gradedit@aa.ufl.edu; every effort will be made to ensure the accuracy of the material listed herein.