Colleges and Departments--University of Florida

College of Agricultural and Life Sciences

Dean: Elaine Turner

The College of Agricultural and Life Sciences offers academic programs and grants advanced degrees in 14 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 12 research and education centers located throughout the state and cooperative extension offices in each of the 67 counties of the state.

The following courses are offered under the supervision of the office of the dean by an interdisciplinary faculty and deal with material of concern to two or more IFAS academic units. The courses are also open to students of other colleges, with the permission of the course instructor.

For more information, please see our website: http://cals.ufl.edu.

Agricultural and Biological Engineering Department

College of Agricultural and Life Sciences

Chair: Dorota Z. Haman
Graduate Coordinator: Greg Kiker The degrees of Master of Science and Doctor of Philosophy are offered with graduate programs in agricultural and biological engineering in the areas of agricultural operations management and applied sciences through the College of Agricultural and Life Sciences. Requirements for these degrees are given in the Graduate Degrees section of this catalog.

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 Master of Science and Doctor of Philosophy programs 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.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at http://www.abe.ufl.edu.

Agricultural Education and Communication Department

Chair: B. E. Myers
Graduate Coordinator: G.D. Israel The Department of Agricultural Education and Communication offers the degrees of Master of Science and Doctor of Philosophy. Graduate students who obtain a degree in Agricultural Education and Communication will focus their study in one of four areas of specialization. The areas of specialization are agricultural communication, agricultural education, extension education, and leadership development. These degree programs are individually tailored to meet the student's unique needs for professional development. The requirements for each degree are described in the Graduate Degrees section of the University of Florida Graduate Catalog. More information about our program can be found by following the link below.

Agronomy Department

Chair: R. A. Gilbert
Graduate Coordinator: L. E. Sollenberger
The Agronomy Department offers the degrees of Doctor of Philosophy and Master of Science (thesis and non-thesis options) in agronomy with specializations in plant physiology, ecology, management and nutrition, weed science (terrestrial and aquatic), and plant breeding and genetics. Requirements for these degrees are given in the *Graduate Degrees* section of this catalog.

Graduate programs emphasize the development and subsequent application of basic principles in each specialization to the management of agricultural and natural ecosystems in Florida and throughout the world. The continuing need for increased plant production for food, fiber and energy to meet the demands of a rapidly escalating population is reflected in departmental research programs. When compatible with a student's program and permitted by prevailing circumstances, some thesis and dissertation research may be conducted wholly or in part in other countries.

Students seeking a graduate program in the Agronomy Department should hold a Bachelor of Science degree from an accredited college or university with a major in an area of plant science, or closely related discipline. A science background with basic courses in biology, botany, mathematics, chemistry, and physics is required of new graduate students.

For more information, please see https://agronomy.ifas.ufl.edu/.

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen
For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at http://www.animal.ufl.edu/amcb/.

Animal Sciences Department

Chair: Geoffrey E. Dahl
Graduate Coordinator: Raluca Mateescu
Animal Sciences is an academic department of the College of Agriculture and Life Sciences (CALS), a unit of the Institute of Food and Agricultural Sciences (IFAS). Creating new solutions to tomorrow's problems underlies everything we do in the Animal Sciences Program. In the areas of teaching, research, and extension, our faculty integrate the most modern technologies available with personal expertise and attention to the needs of students and our industry. For more information about the Animal Sciences program, contact Raluca Mateescu at raluca@ufl.edu, follow the link below to our program page, or visit the program's website at http://animal.ifas.ufl.edu/students/graduate/index.shtml.

Entomology and Nematology Department

College of Agricultural and Life Sciences

Chair: Blair Siegfried
Graduate Coordinator: Heather J. McAuslane

The Entomology and Nematology Department offers the Master of Science (thesis and nonthesis options) and Doctor of Philosophy degrees in entomology and nematology with the following specializations: entomology, nematology, and pest management. Minimum requirements for the M.S. and Ph.D. degrees are described in the Graduate Degrees section of this catalog.

The Department also offers a cooperative Doctor of Philosophy degree with Florida A&M University and distance education courses leading to the M.S. degree. Members of the Graduate Faculty include the department resident faculty, faculty located on University of Florida campuses away from Gainesville, scientists with other State of Florida agencies such as the Division of Plant Industry and Florida Department of Agriculture and Consumer Services, and scientists of the U.S. Department of Agriculture. The Graduate Faculty is qualified to direct graduate students in all specialties of entomology, nematology, and acarology.

New graduate students should have backgrounds in biology, chemistry, physics, and mathematics. Minor deficiencies may be made up after entering graduate school.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please see the program page below, and visit our website: http://entnemdept.ifas.ufl.edu/academics-directory/.

Family, Youth, and Community Sciences Department

Interim Chair: Tracy Irani
Graduate Coordinator: David C. Diehl

The FYCS graduate program is an interdisciplinary applied social science program that prepares students for advanced degrees (e.g., Ph.D.) and careers in such areas as family and youth services, Extension and community-based education, community development and nonprofit management, program planning and evaluation, and social policy. Graduates find careers in both the public and private sectors including:

- Child and Youth Development in areas such as juvenile justice, dropout prevention programs, recreational and camp programs, and youth ministry;
- Community Development Practice in local and regional government, private nonprofit organizations (such as chambers of commerce, local development corporations, and local, national and international foundations) and citizen's groups;
- Nonprofit Organizational Management, such as management of community based, nonprofit organizations;
- Family and Social Services, such as family preservation programs, assistance for abused and neglected children and other public assistance programs; and
- Cooperative Extension Service in such areas as youth development, family and consumer sciences and community development.

Contact the graduate coordinator for more information or visit http://fycs.ifas.ufl.edu/.

Food and Resource Economics Department

College of Agricultural and Life Sciences

Chair: Spiro Stefanou
Associate Chair: Rodney Clouser
Graduate Coordinator: Lisa House

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

The Department participates in programs with the Center for Latin American Studies, the Center for African Studies, the Center for Tropical Agriculture, the School of Natural Resources and Environment, the College of Law, and the Florida Sea Grant College Program.

The Department programs reflects the diversity of Florida's agriculture which has more than fifty major commodities. With over thirty faculty involved in a full range of research, extension, and teaching programs in areas including Agricultural Marketing, International Trade, Policy, Production/Farm Management, International Development, Marine Economics, Natural Resource and Environmental Economics, Community/Regional Development and Labor Economics. In addition to the main campus location, the department has faculty at research centers throughout the state.

Several members of the faculty have garnered international reputations in diverse fields such as trade policy, generic advertising, citrus economics, sugar policy, business retention and expansion, leadership development, consumer attitudes towards genetically modified food, and dairy marketing.

The Department offers a combined bachelor's/master's degree program for the Master of Science and Master of Science with Concentration in Agribusiness. Contact the Graduate Program Office in 1179 McCarty Hall for information.

For more information, please see the program pages below, and see our website: http://www.fred.ifas.ufl.edu.

Food Science and Human Nutrition Department

College of Agricultural and Life Sciences

Chair: Susan S. Percival
Graduate Coordinators: Harry S. Sitren (M.S. in Food Science and Human Nutrition / Ph.D. in Food Science), James F. Collins (Ph.D. in Nutritional Sciences)

The Food Science and Human Nutrition Department (FSHN) is one of the world's largest combined academic programs where food science, nutritional sciences, and dietetics are all studied within one department. FSHN has nearly 30 full-time faculty members, 80 graduate assistants, and close to 1,000 undergraduate students. Our programs are accredited by the Institute of Food Technologists (IFT) and the Accreditation Counsel for Education in Nutrition and Dietetics (ACEND). After completing undergraduate degrees, our students typically move on to professional employment, further education or training in food or nutrition graduate programs, or on to professional school programs. We have a strong record of excellent placement of our graduate students in industry and professional organization employment positions, as faculty members at colleges and universities, or in postdoctoral training experiences.

Our faculty has trained at institutions from around the world; they have been widely successful in their teaching, research, and extension efforts. Throughout our programs in food science, nutrition, and dietetics, our faculty is recognized nationally and internationally as experts in their respective fields.

The Food Science and Human Nutrition Department offers programs leading to the degrees of Master of Science in Food Science and Human Nutrition, Doctor of Philosophy in Food Science, and Doctor of Philosophy in Nutritional Sciences (offered under the auspices of the Center for Nutritional Sciences). Minimum requirements for these degrees are located in the Graduate Degrees section of this catalog.

For more information please click the links to the program pages below, or see our website: http://fshn.ifas.ufl.edu.

Horticultural Sciences Department

College of Agricultural and Life Sciences

Chairs : K.M. Folta (Chair, Horticultural Sciences) and Rosemary Loria (Interim Chair, Environmental Horticulture)
Graduate Coordinator: Bala Rathinasabapathi (Horticultural Sciences) and Hector Perez (Environmental Horticulture)

The Horticultural Sciences Department Graduate Program at the University of Florida has a wide array of opportunities for graduate study.

The Horticultural Sciences (HOS) graduate program is administered jointly by the Environmental Horticulture (HSE) and Horticultural Sciences (HS) departments and offers graduate programs leading to the Master of Science (thesis or nonthesis options) and the Doctor of Philosophy degrees. Members of the program's Graduate Faculty include department resident faculty and faculty at University of Florida Research and Education Centers located throughout Florida.

The Horticultural Sciences Department offers a combined bachelor's/master's degree program. Please contact the graduate coordinator for information.

For admission to the HOS graduate program, apply to either the HS or HSE departments, depending on your career/research interest. Details about the program and how to apply are listed on their website:

HOS http://hos.ufl.edu

HSE http://hort.ufl.edu

Microbiology and Cell Science Department

Chair: E. Triplett
Graduate Coordinator: Tony Romeo

Graduate study is offered leading to the Master of Science and Doctor of Philosophy degrees in microbiology and cell science, with emphasis in one or more of the disciplines of biochemistry, cell biology, and microbiology.

Requirements for these degrees are provided in the Graduate Degrees section of this catalog and also at the Department webpage: http://microcell.ufl.edu/.

Instruction and guidance are collaborative among faculty in the Colleges of Agricultural and Life Sciences, Liberal Arts and Sciences, and Medicine.

Research spans broad areas in the cellular and molecular aspects of bacterial, plant, and animal life functions: Areas of research include microbial biochemistry, biotechnology; biomass conversion; genetic and metabolic regulation; environmental microbiology; cell biology; molecular biology; molecular genetics; genomics and bioinformatics; immunology; virology; parasitology, host-pathogen interactions; cellular ultrastructure.

Prerequisites for admission to graduate study, in addition to those of the Graduate School, are a broad educational background including mathematics, physics, and chemistry through organic, analytical, and physical chemistry; basic courses in biology, botany, and/or zoology; and at least one course in microbiology and biochemistry. An undergraduate major in biochemistry, physical or chemical science, engineering, or general biology may be an acceptable alternative to a degree in microbiology or cell science. Receipt of an advanced degree requires detailed knowledge in microbiology, biochemistry, and chemistry; undergraduate deficiencies may necessitate additional course work prior to entry into the graduate program.

In addition, the Microbiology and Cell Science Department also offers a combined B.S./M.S. program that allows qualified students to earn both the Bachelor's and Master's degrees with 12 credit hours of jointly counted course work. This program is considered a "4/1" because students may be awarded both degrees within a five-year period. For further information on this program, follow this link: http://microcell.ufl.edu/programsmcs/.

Plant Molecular and Cellular Biology Department

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

Plant Molecular and Cellular Biology (PMCB) currently has 45 faculty members in the program. They are based in the departments of Agronomy, Biology, Environmental Horticulture, Forest Resources and Conservation, Horticultural Sciences, Microbiology and Cell Science, Molecular Genetics and Microbiology, and Plant Pathology within the colleges of Agriculture and Life Sciences, Medicine, and Liberal Arts and Sciences.

Plant Pathology Department

Chair: R. Loria
Graduate Coordinators: J. Jones

The Department of Plant Pathology offers graduate studies leading to the Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees. The Department also participates in the Doctor of Plant Medicine interdisciplinary professional degree.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please visit http://plantpath.ifas.ufl.edu/.

School of Forest Resources and Conservation

College of Agricultural and Life Sciences

Director: Terrell "Red" Baker III
Graduate Coordinator: T.V. Stein

Since 1937 the School of Forest Resources & Conservation has prepared students for professional careers caring for natural resources. We emphasis the role of people in managing both terrestrial and aquatic systems, to produce the myriad of benefits and services they provide. Our faculty have a broad range of interests, including ecology, economics/policy, and recreation/education, and are united by an interest in environmental resources, rather than by traditional academic discipline. The School is composed of three programmatic areas: Fisheries and Aquatic Sciences, Forest Resources and Conservation, and Geomatics. Combined, these programs offer seven different degree options (including two professional

masters degrees), as well as concentrations and certificates in a diversity of specific areas. Minimum requirements for these degrees are given in the Graduate Degrees section of this catalog.

Joint program: Students may simultaneously earn a juris doctorate from the College of Law and a graduate degree (M.F.R.C., M.S., or Ph.D.) in Forest Resources and Conservation.

Combined programs: The School offers a combined bachelor's/master's degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings of 1 semester. Ph.D. students may pursue a co-major with the Department of Statistics (see below).

Concentration in geomatics: Students completing 15 or more credits with an SUR designation, as part of an SFRC graduate degree, may earn the concentration in geomatics. Geomatics is the collection, analysis, and management of spatial information and includes such fields as surveying, mapping, land tenure, cadastral systems, geographic information systems, and remote sensing.

Concentration in ecological restoration: This concentration is available to M.S. non-thesis students. To earn this concentration a student must complete Ecosystem Restoration Principles and Practice and four of the following courses: Ecological Distribution and Management of Invasive Plants, Ecology and Restoration of Invaded Ecosystems, Ecology and Restoration of Longleaf Pine Ecosystem, Watershed Restoration and Management, Natural Resource Policy and Administration, or Agroforestry in the Southeastern US. Ecological restoration seeks to return ecosystems to a close approximation of condition before a disturbance.

Statistics co-major: Ph.D. students with the School may elect the co-major offered jointly with the Department of Statistics. Students focusing on forest genetics, tree improvement, and other statistics-intensive aspects of natural resource management are potential candidates for this option.

Certificates: The School administers the Graduate Certificate in Agroforestry, and SFRC students regularly earn certificates in Geographic Information Systems and in Environmental Education and Communication. Requirements are described under *Interdisciplinary Graduate Certificates and Concentrations* in this catalog.

For additional information, please visit the School's web page at http://sfrc.ufl.edu.

For details on what terms courses will be offered, please visit http://sfrc.ufl.edu/gradcourses.html.

School of Natural Resources and Environment

Graduate coordinator: T. Frazer

The University of Florida School of Natural Resources and Environment offers interdisciplinary coursework in the basic and applied science of ecology, the related social sciences, and sustainability, leading to M.S. and Ph.D. degrees. Choose from about 450 courses, 280 faculty advisors, and 44 participating departments. Research areas of ecology graduate students range across natural resource ecology, environmental policy and management, and sustainable development.

Environmental problems are fundamentally human problems and should be understood in terms of human motivations and actions in a biophysical context. Their solution requires holistic thinking about dynamic ecological systems and the social, economic, and political forces driving human action. To this end, the goal of the Interdisciplinary Ecology graduate program is to provide advanced training in ecosystems thinking and the main theories and methodologies of the biophysical and social sciences to foster integrative approaches to complex real-world problems. Interdisciplinary Ecology students are intensely interested in the sustainability problem, and they welcome the challenge of addressing it through more than one traditional discipline.

Combined programs: The School offers a combined bachelor's/master's degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings of 1 semester.

Soil and Water Sciences Department

Chair: K. Ramesh Reddy
Graduate Coordinator: Willie Harris

The Soil and Water Sciences Department offers Master of Science (thesis or professional non-thesis option) and Doctor of Philosophy degrees in soil and water science with the following specializations: ecology, environmental science, hydrologic science, and soil science. The Department also offers Master of Science (thesis or professional option) specialization in environmental science via distance education for place bound students (http://soils.ifas.ufl.edu/academics/degree-environscience.shtml). Requirements for the M.S. and Ph.D. degrees are given in the Graduate Degrees section of this catalog.

Soil and Water are vital resources in urban, agricultural, and natural ecosystems. The Soil and Water Sciences Department (SWSD) provides highly visible leadership in teaching, research, and extension/outreach programs as related to improving the productivity of agriculture with environmentally sound management practices, improving water quality, and protection and conservation of natural resources. Our department is one of the few in the nation that offers a comprehensive research and educational programs (molecular to landscape level) involving terrestrial, wetlands and aquatic ecosystems of the landscape. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place-bound students. Our graduates and postdoctoral fellows are well placed at universities, state and federal agencies, and private industry.

The SWSD programs are designed to meet the changing needs of our clientele at state, national and international levels. To meet new challenges and explore new opportunities, the SWSD's research, teaching, and extension programs are focused in five areas, with broader implication to water quality, carbon sequestration, greenhouse gases, and climate change:

- Nutrient, Pesticide, and Waste Management
- Soil, Water, and Aquifer Remediation
- Carbon Dynamics and Ecosystem Services
- Landscape Analysis and Modeling
- Wetlands and Aquatic Ecosystems

The Department offers graduate level certificates in Biodegradation and Remediation, Soil Ecosystem Services, Sustainable Agroecosystems, Sustainable Land Resource and Nutrient Management and Wetland and Water Resource Management for both on-campus students and via distance education for place bound students (http://soils.ifas.ufl.edu/academics/degree-certificates.shtml).

An additional option offered by the Department is a combined bachelor's/master's degree program that permits a B.S in Soil and Water Science or Interdisciplinary Studies – Environmental Management in Agriculture and Natural Resources and M.S. Degree to be completed in five years. Contact the graduate coordinator for more information.

For more information, please see the program page below and our website: http://soils.ifas.ufl.edu.

Wildlife Ecology and Conservation Department

College of Agricultural and Life Sciences

Chair: Eric C. Hellgren
Graduate Coordinator: Kathryn E. Sieving

The Department of Wildlife Ecology and Conservation offers Master of Science (thesis and nonthesis option) and Doctor of Philosophy degrees in wildlife ecology and conservation. Requirements for these degrees are described in the Graduate Degrees section of this catalog.

Program emphases include wildlife biology, ecology, and management; landscape ecology and restoration; human dimensions; tropical and international conservation; and conservation education. Graduate students should have appropriate undergraduate training in the biological, social, and physical sciences including physics, chemistry, and mathematics. Students with inadequate backgrounds may be required to take (without credit at the graduate level) remedial undergraduate courses pertinent to their fields of interest.

For more information, please see our website: http://www.wec.ufl.edu.

College of the Arts

Dean: L. Lavelli

The arts program at UF began in the 1920s to serve the state of Florida's needs. Meeting these needs over the past 80 years has propelled the college to excel on a national and international level and has defined its mission to provide instruction for students seeking professional careers in the arts. In addition to providing rich educational experiences and programs in the arts, the college brings national and international recognition to the university through the high-level professionalism associated with the faculty and alumni, and the competence of students and graduates.

For more information about the College of the Arts, please see our website: http://www.arts.ufl.edu.

School of Art and Art History

College of the Arts

Director: Richard C. Heipp
Graduate Coordinator: Patrick Grigsby

The School of Art and Art History offers the M.F.A. degree in art with specializations in art + technology, ceramics, creative photography, drawing, graphic design, painting, printmaking, and sculpture. The school also offers Master of Arts degrees in art education, art history, and museology (museum studies) and the Doctor of Philosophy degree in art history. Requirements for these degrees can be found in the Graduate Degrees section of this catalog, and information about each of these graduate programs can be found at the links below.

For more information, please see our website: http://www.arts.ufl.edu/welcome/art.

Digital Worlds Institute

College of the Arts

Director: James C. Oliverio
Graduate Coordinator: Justin Marlin

The Digital Worlds Institute exists to nurture leading edge education between the arts, communications, engineering and the sciences, utilizing advanced media systems and digital culture. By bringing together the diverse talents of University of Florida faculty, students, and staff in a multifaceted collaborative environment, the Institute serves as a platform for interdisciplinary research and teaching that would not have occurred within the confines of any one college or department. Through the use of interactive tools and technologies, the Institute promotes transdisciplinary creativity across classrooms, continents and cultures.

For more information, please see the program page below and our website: http://www.digitalworlds.ufl.edu.

Music Department

College of the Arts

Director: J. A. Duff
Graduate Coordinator: L. S. Odom

The School of Music offers programs leading to the Master of Music degree in music and music education. Program concentrations in music include choral conducting, composition, instrumental conducting, musicology, ethnomusicology, music theory, performance, and sacred music. In addition, the School of Music offers the Doctor of Philosophy degree in music and in music education.

The Ph.D. program in music education emphasizes college music teaching. The Ph.D. program in music includes concentrations in:

- Music history and literature, with options in traditional musicology and ethnomusicology
- Composition, with options in acoustic and electroacoustic specialization

All Ph.D. students are encouraged to find opportunities to teach and lecture in their specializations; and with the assistance of their principal professors, to prepare papers, workshops, and clinics for presentation at professional conferences, in the public schools, and at colleges and universities. Students also are encouraged to publish their research in appropriate journals. Minimum requirements for the M.M. and Ph.D. degrees are given in the General Information section of this catalog. The week before classes begin, students must take placement examinations in music history and in music theory. Students wanting to study privately in a performance studio must be auditioned and accepted by the appropriate area faculty. Voice students must demonstrate appropriate skills in language and diction. All deficiencies must be remedied.

For more information, please see the program pages below and our website: http://www.arts.ufl.edu/welcome/music.

School of Theatre and Dance

Director: J. Dickey
Graduate Performance Program Coordinator: Ralf Remshardt
Graduate Design Program Coordinator: S. Kaye

The graduate program offered by the School of Theatre and Dance leads to the degree of Master of Fine Arts in Theatre. Minimum requirements for this degree are given in the *General Information* section of this catalog.

The M.F.A. degree prepares students for professional entry in acting, production, or teaching. Placement in the M.F.A. program is determined by audition/portfolio review, academic credentials, and personal interview. Candidates for admission should have adequate training in theatre. Deficiencies may be corrected before beginning graduate study.

The program emphasizes the study and practice of theatre as an art and discipline. Students of acting and design study concepts of theatre together while working in their areas of specialization. Focus is on the collaboration and synthesis of theatre artistry. Each incoming class is composed of approximately 12 to 18 students in acting and all design areas.

The student's artistic and academic progress will be reviewed at the end of each semester. The *School of Theatre Handbook* gives details on the form and focus of each review. This information is online at http://www.arts.ufl.edu/theatreanddance/pages/whatyouneedtoknow/downloads/downloads.asp.

During the final year of study, each student must successfully complete the comprehensive examination and oral defense. The project in lieu of thesis includes research, analysis, rehearsal process, and evaluation. Development and execution of the project includes public performance (acting or design). The written document and oral defense of the project which follow must demonstrate the ability to communicate the creative process.

Graduate acting students audition for all departmental productions.

Warrington College of Business

Dean: John Kraft

The mission of the Warrington College of Business is to build a better society by creating influential research and educating tomorrow's business leaders. The mission emphasizes service to society, a key feature of a Land Grant university. The activities through which the College achieves this global aim are research and teaching. These two activities are highly complementary, indeed intertwined, and both are vital to the continued excellence of the Warrington College. The Hough Graduate School of Business has specialized programs tailored to fit students' strengths and interests.

Graduate degrees offered by the Warrington College of Business are the Doctor of Philosophy with major programs in business administration; the Master of Science with major programs in Business Administration, in Finance, in Management, and in Real Estate; the Master of Business Administration; the Master of Entrepreneurship; the Master of Science in Information Systems and Operations Management; the Master of International Business; and the Master of Accounting. Fields of concentration and minimum requirements for the M.B.A. are given in the Graduate Degrees section of this catalog, as well as admission and degree requirements for the Ph.D.

For more information, please see the associated department and program pages in this catalog, and our website: http://warrington.ufl.edu.

Fisher School of Accounting

Warrington College of Business

Director: Gary A. McGill
Graduate Coordinators: John Laibson and Jenny Tucker

As a professional school in a major public research university, the Fisher School of Accounting (FSOA) is committed to scholarly research, teaching, and service to advance knowledge and prepare future leaders for business, professional, and academic careers.

The Fisher School of Accounting offers graduate work leading to the Master of Accounting (M.Acc.) degree with a major in accounting and optional concentrations in auditing and taxation, and the Ph.D. degree with a major in business administration and an accounting concentration. Requirements for these degrees are available in the Graduate Degrees section of this catalog.

For more information, please see the program pages below, or visit our website: http://warrington.ufl.edu/accounting.

Finance, Insurance, and Real Estate Department

Chair: Andy Naranjo
Graduate Coordinator: Mahen Nimalendran

The Department of Finance, Insurance, and Real Estate offers graduate work leading to the Master of Science degree with major programs in finance and real estate; the Master of Science in Entrepreneurship (M.S.E.); and the Doctor of Philosophy degree in business administration with a concentration in finance, insurance, quantitative analysis, or real estate. Complete descriptions of the minimum requirements for the M.S., M.S.E, and Ph.D. degrees are provided in the *Graduate Degrees* section of this catalog.

Finance, Real Estate, and Entrepreneurship are also available as concentrations within the M.B.A program. For information about the M.B.A. program, please consult that listing in the *Graduate Degrees* section.

For more information see the program pages below, and visit our website: http://warrington.ufl.edu/departments/fire.

Information Systems and Operations Management Department

Warrington College of Business

Chair: Haldun Aytug
Graduate Coordinator: Shubho Bandyopadhyay

The primary mission of the Department of Information Systems & Operations Management is a commitment to scholarly research, teaching and service to advance the state of knowledge in information systems and supply chain management and to train future leaders for professional and academic careers.

The Department offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the Graduate Degrees section of this catalog.

Combined Bachelor/Master of Science: The Department also offers a combined bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see the program pages below and our website: http://warrington.ufl.edu/departments/isom.

Management Department

Warrington College of Business

Chair: Robert E. Thomas
Graduate Coordinator: Amir Erez

The Management Department offers graduate work leading to a Ph.D. degree with a major in Business Administration and a concentration in Management; a Master of Business Administration degree with a concentration in Management; a Master of Science degree with a major in Management; and a Master of International Business (M.I.B.). Complete descriptions of the minimum requirements for these degrees are provided in the Graduate Degrees Section of this catalog.

The Department participates in combined bachelor's/master's degree programs for the Master of International Business (M.I.B.) and Master of Science (M.S.) with a major in management. The Master of International Business is open to students pursuing a bachelor's degree in a business discipline or minor in business administration. The M.S. with a major in management program is only open to non-business majors. Contact the graduate coordinator for information.

For more information, please see the program pages below and our website: http://warrington.ufl.edu/departments/mgt.

Marketing Department

Chair: Richard J. Lutz
Graduate Coordinator: Aner Sela

The Marketing Department at the University of Florida is a recognized leader in the discipline of marketing. For over a decade, our faculty has ranked as one of the most productive and influential in the field. Our faculty is known for conducting provocative, cutting-edge research that contributes both to the scientific understanding and practice of marketing. Our Ph.D. program has produced many leading researchers in the discipline. And the David F. Miller Center for Retailing Education and Research is known as one of the foremost centers for developing the science of retailing.

The Marketing Department offers a graduate program leading to the degree of Ph.D. in Business Administration (Marketing). Requirements for the Ph.D. degree are described in the Graduate Degrees section of this catalog.

For more information, please see our website: http://warrington.ufl.edu/departments/mkt.

College of Dentistry

Dean: Isabel Garcia
Associate Dean & Director: Roberta 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 140. In 1993, the college started master degree programs in endodontics, orthodontics, periodontics and prosthodontics, and continues today to grow.

Follow this link for more information about UF's College of Dentistry graduate programs:
http://admissions.dental.ufl.edu/advanced-graduate-programs/programs-application-process/

Dental Sciences Department

Endodontics Chair and Graduate Coordinator: Roberta Pileggi
Orthodontics Chair and Graduate Coordinator: Calogero Dolce
Periodontology Chair: Ikramuddin Aukhil; Graduate Coordinator: Rodrigo Neiva
Restorative Dental Sciences Interim Chair: Deborah Dilbone; Graduate Coordinator: Edgar O'Neill

The College of Dentistry offers the Master of Science degree in dental sciences with concentrations in endodontics, orthodontics, periodontics, and prosthodontics. These concentrations include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include a minimum of 38 hours of appropriate course work and research in topics relevant to each specialization. Requirements for the master's degree include

- Satisfactory completion of all course work
- Meeting the requirements for clinical certification in the respective dental specialty
- Thesis or project based on research.

Prerequisites for admission, in addition to those of the Graduate School, include

- D.D.S. or D.M.D. degree
- Completion of Parts I and II of the American Dental Association's National Board of Dental Examinations.

The application deadline for Endodontics, Periodontics, and Prosthodontics is August 1
The application deadline of Orthodontics is September 2

Send applications to

Master of Science Program,
College of Dentistry,
P.O. Box 100402,
Health Science Center,
University of Florida,
Gainesville, FL 32610-0402

Requirements for the M.S. degree are provided in the Graduate Degrees section of this catalog.

For further information, see the Dental Science program link below.

College of Design, Construction, and Planning

Dean: Chimay Anumba

DCP is home to five independent professional disciplines: architecture, construction management, interior design, landscape architecture and urban and regional planning. The college also is home to an interdisciplinary program in historic preservation, which allows graduate students to gain expertise in research and application of historic preservation in the United States and abroad.

Accreditation and Degrees

The academic programs in the college have an accreditation process from the professional organizations of each discipline.

- Architecture – National Architectural Accrediting Board
- Construction Management – American Council for Construction Education
- Interior Design – Foundation for Interior Design Education Research
- Landscape Architecture – American Society of Landscape Architects
- Urban and Regional Planning – Planning Accreditation Board

DCP offers both 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.

For more information, please see our website: http://www.dcp.ufl.edu.

School of Architecture

Director: Jason Alread, AIA, Leed AP
Graduate Coordinator: Bradley Walters

The School of Architecture recognizes design as a synthesis of thinking, analyzing and making — an iterative process that engages, issues of space, historical precedent, sustainability, ecology, urbanity, landscape, built-form, and construction toward innovation. As Florida will soon support the third largest population in the US, the challenges of rapid growth within sensitive natural ecologies, fluctuating tourism, humid and hot climate, multiple urban centers, sprawling suburbs, dwindling agriculture, lack of mass transit, and extensive coastal hurricane threats requires integrative and collaborative design strategies for the future.

The School of Architecture is uniquely positioned to respond to these issues by deploying studio based design methodologies in collaboration with a new generation of experts in engineering, ecology, business, anthropology, energy, fine arts, medicine and construction. Within the University of Florida, the State's flagship research institution, a trove of researchers and faculty dedicated to academic excellence and interdisciplinary collaboration are focused on the demands of changing culture. The SoA is one of seven programs associated within the College of Design, Construction and Planning — Architecture,Landscape Architecture, Planning, Preservation, Sustainability and the Built Environment, Interior Design and Building Construction. SoA faculty and students, working independently and collaboratively across disciplines through teaching, research and practice, have garnered international, national, state and local design awards, publish regularly and secure national, state and local grant funding for research based service learning and design projects. This body of work poses theoretical, poetic, cultural and practical questions and suggests responses through the discipline of design.

The G|SoA is focused on research-based design that explores critical issues of a changing culture — climate, energy, infrastructure, transportation and population growth/redistribution. Students are engaged in design as a collaborative and integrative methodology addressing both real and speculative projects through coordinated studios, seminars and workshops. To support this effort, nationally recognized award winning Architects from practice and the academy in the US and abroad collaborate with faculty and students in studio and intensive issue-oriented workshops strategically scheduled during the academic year.

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

Interim Director: R. Raymond Issa
Director of Master's Programs: R. Edward Minchin, Jr.
Ph.D. Coordinator: Ian Flood

Doctor of Philosophy: The college offers an interdisciplinary doctoral program in design, construction, and planning. Areas of specialization in the program include architecture, construction management, interior design, landscape architecture, and urban and regional planning. Within the area of construction management, specialization options include, but are not limited to, sustainable construction, information technology and modeling, project management, affordable housing, construction safety, human resource management, construction law, and materials science. These specializations prepare students to assume college-level faculty positions and industry research positions in construction management and the building sciences. For information on the PhD program specializations in the Rinker School of Construction Management, write to the PhD Program Coordinator, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703. For more information on the Ph.D. program, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Construction Management (M.C.M.) or Master of Science in Construction Management (M.S.C.M.): The M.E. Rinker Sr. School offers courses leading to the degrees of Master of Science in Construction Management (thesis), Master of Construction Management (nonthesis), and Master of International Construction Management (nonthesis distance education program for experienced professionals). Specialization may be in such areas as sustainable construction, information systems, energy and life cycle modeling, housing, materials science, project management, human resources, and construction law. Requirements for the M.C.M., M.S.C.M., and M.I.C.M. degrees are given in the General Information section of this catalog.

To be eligible for admission to the M.C.M. or M.S.C. programs, a student must hold a 4-year undergraduate degree from an accredited university. Students with deficiencies may need longer residence for the master's degree, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement. International students from countries where English is not the official language must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: paper=560, web=84 with 21 in each section), IELTS (International English Language Testing System: 6.5), MELAB (Michigan English Language Assessment Battery: 80 with a 3 on the Speaking Test), or successful completion of the UF English Language Institute program.

No more than 3 credits of BCN 6971 may be used to satisfy the credit requirements for the M.S.C.M. degree without written permission of the Director of Master's Programs.

Master of International Construction Management (M.I.C.M.): This program prepares students to assume upper-level management responsibilities in multinational companies. To be eligible for admission to the M.I.C.M. program, a student must have

- A 4-year undergraduate degree from an accredited university
- Meaningful, supervisory-level construction management experience
- Acceptable GRE scores (verbal and quantitative)
- A grade point average of 3.0 on a 4.0 scale
- International students from countries where English is not the official language must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute program.

No more than 3 credits of ICM 6934 may be used to satisfy the credit requirements for the M.I.C.M. without written permission of the Director. All candidates are required to take ICM 6930. In addition to these 6 research-oriented graduate credit hours, the student selects one or two areas of emphasis and then takes the rest of the required 33 credit hours from the remaining courses and special electives. All candidates are required to pass a comprehensive oral and/or written examination at the completion of the course work and their master's research report/project.

The M.E. Rinker, Sr. School reserves the right to retain student work for purposes of record, exhibition, or instruction.

Research facilities: The Shimberg Center for Housing Studies, operating within the School, researches the problems and possible solutions associated with developing and producing affordable housing. The Powell Center for Construction and the Environment conducts research on implementing sustainability in creating, operating, and constructing a built environment. The Fluor Program for Construction Safety researches and disseminates information on matters related to construction safety and health. The Human-Centered Technology in Construction (HCTC) lab focuses on theoretical and experimental investigation of human-computer/robot systems in construction.

Combined program: The School also offers a combined bachelor's/master's degree program which allows qualified students to earn both degrees at an accelerated pace. Qualified students are allowed to begin the M.C.M./M.S.C.M. degree course work in the first senior semester and up to 12 credits of coursework may count two both degrees. Students must have a 3.4 grade point average and acceptable GRE scores in order to be eligible. Contact the Director of Master's Programs for additional information, Rinker School of Construction Management, 304 Rinker Hall, P.O. Box 115703.

For more information, please see our website: http://www.bcn.ufl.edu.

Interior Design Department

Chair: M. Portillo
Graduate Coordinator: N. Park Doctor of Philosophy:
The College offers an interdisciplinary program leading to the Doctor of Philosophy degree in design, construction, and planning. Areas of specialization within this program include architecture, building construction, interior design, landscape architecture, and urban and regional planning. For information, write to the Ph.D. Director, College of Design, Construction, and Planning Doctoral Program, 331 ARCH, P.O. Box 115701.

Master of Interior Design:
The Master of Interior Design (M.I.D.) provides opportunities for students to direct their attention toward a variety of topics, including

- Design pedagogy and processes
- Sustainable, healthy, safe, and secure environments
- Creative performance and innovation
- Built heritage conservation

Regardless of the study emphasis selected by the student, the M.I.D. program has a central focus with three categories of course work:

- Design studio
- Seminars in current interior design topics
- Theories and methods of research.

All M.I.D. students must complete an approved research topic with a written thesis. Requirements for the M.I.D. and Ph.D. degrees are given in the General Information section of this catalog.

Applications:

All applications must include acceptable GRE scores, transcripts for all previous academic work, and if the applicant's native language is not English, a satisfactory score on one of the following: TOEFL (Test of English as a Foreign Language: computer=213, paper=550, web=80), IELTS (International English Language Testing System: 6), MELAB (Michigan English Language Assessment Battery: 77), or successful completion of the UF English Language Institute. This information must be received in the Office of the Registrar by February 2. In addition to satisfying University requirements for admission, the applicants are required to submit to the Department of Interior Design the following:

- A portfolio of your design work (if you received a design-based degree). The portfolio should be emailed to the department as a pdf to mmatckie@dcp.ufl.edu or sent via WeTransfer as a pdf to mmatckie@dcp.ufl.edu.
- A written essay on your goals and aspirations related to graduate studies; attach to your application or email to mmatckie@dcp.ufl.edu.
- Three letters of recommendation; directly sent to the applications system via the on-line request you set up or emailed to the department to mmatckie@dcp.ufl.edu.
- A personal interview is not required, but many applicants choose to visit the campus and Department as a part of the application process.

Students enrolled in the Bachelor of Interior Design program at the University of Florida may apply to the M.I.D. program during their junior year by applying for a Combined Degree(see below).

The Department reserves the right to retain student course work for the purposes of record, exhibition, or instruction. Field trips are required for all students; students should plan to have adequate funds available. Students are required to purchase a computer for course work. It may be necessary to assess studio fees to defray costs of base maps, plans, and other generally used materials.

Admission: Applications are processed through February 2 for fall term and all applicants are encouraged to apply as soon as possible. Admission decisions are made between February and the end of April. All new students begin their studies in the fall to coincide with curriculum sequencing.

Graduate course requirements according to background: After assessment of previous design work, leveling courses may be required to prepare the student for the M.I.D. 36 hours of graduate course work. Therefore, each student entering the Master of Interior Design program works with the graduate coordinator to evaluate the student's unique background to determine the specific courses needed to facilitate interest and experience. Estimated credit hours and length of study time vary according to each student's individual baccalaureate degree and experience.

There are four options.

- For students enrolled in the Bachelor of Design program at the University of Florida, 12 hours of graduate-level course work in the senior year can be counted for both the undergraduate and the M.I.D. degrees. An additional 24 graduate credit hours are required. Expect at least 1 additional year to complete the M.I.D. (Combined Degree form found on the Graduate School site)

- For students who graduated from a Council of Interior Design Accreditation (CIDA) accredited first professional degree program within an architectural framework, the course of study is estimated to be 36 graduate credit hours. Expect 2 years to complete the M.I.D.

- For students who graduated from a design-related (architecture or interior design) baccalaureate degree program, the course of study is estimated to be a maximum of 59 graduate credit hours (includes the 36-hour M.I.D.). Expect 3 years to complete leveling courses and the master's degree.

- For students with a bachelor's degree in a field other than design, the course of study is estimated to be 93 undergraduate and graduate credit hours. Expect 3 to 4 years to complete leveling courses and the M.I.D.

Estimates of the number of credit hours and length of study time may be adjusted based on the individual student's previous preparation including experience as a practicing designer, architect, or other professional.

Program requirements: After leveling courses are completed and with approval by the graduate coordinator and supervisory committee chair, a student completes 24 hours of departmentally approved graduate work in the Department of Interior Design. In addition, with the graduate coordinator's approval, the student is required to take 3 hours of course work in graduate statistics and 9 hours of multidisciplinary graduate electives that reinforce and extend the research.

Courses from such academic units as Psychology, Anthropology, Sociology, Engineering, Education, and Business Administration provide possible electives. The College of Design, Construction and Planning offers the Certificate in Historic Preservation. If the focus of a student is the renovation and preservation of built environments, then historic preservation courses leading to a certificate would strengthen the research and design effort. Likewise, existing appropriate courses in Architecture, Landscape Architecture, Urban and Regional Planning, and Building Construction offer both collaborative study and research opportunities for M.I.D students.

Each student must select a two-member supervisory committee to guide course selection and to guide thesis selection, study, and production.

Landscape Architecture Department

College of Design, Construction, and Planning

Chair: Tina Gurucharri
Graduate Coordinator: Dan Manley

The mission of the Department of Landscape Architecture is to advance the ethical, creative, and skillful application of the art and the science of planning and designing urban, rural and natural environments. The Master of Landscape Architecture seeks excellence through professional practice and service, and through research and scholarly pursuit.

The department offers a combined bachelor's/master's degree program with the Bachelor of Sustainability and the Built Environment. The department also offers a combined bachelor/master degree program for current UF landscape architecture

undergraduate students who intend to complete a graduate landscape architecture degree at UF. Please contact a College of Design, Construction and Planning Advisor and/or Graduate Coordinator for Landscape Architecture to learn more and for information about application procedures for both combined degree programs.

Interstate field trips are required as a part of the normal program curriculum. Students should plan to have adequate funds for field trips and for studio materials. Students are also required to own a laptop computer meeting minimum department requirements. These specifications are available through the department of Landscape Architecture's website at URL: http://www.dcp.ufl.edu/landscape.

The Graduate program in Landscape Architecture offers flexibility in meeting the needs of applicants with varied backgrounds. Students entering the graduate program in landscape architecture follow one of the four following tracks:

Pre MLA Program
Graduate students who do not possess an LAAB accredited professional degree in landscape architecture are invited to enroll in the Pre MLA program.

The Pre MLA Program aids the development of basic analytical, design and graphic skills. Upon successful completion of the Pre MLA Summer term, students advance into a two-semester sequence of articulation courses that provide a foundation of applied landscape design and planning theory as well as competencies in landscape construction.

MLA Advanced Graduate Studies Program
Graduate students having completed the Pre MLA program or entering the MLA program with an LAAB accredited professional baccalaureate degree in Landscape Architecture commence a two year program of advanced graduate coursework towards the completion of the MLA degree.

MLA Program + Construction
Graduate students with a non-accredited or non-LAAB accredited degree in Landscape Architecture may apply directly to the MLA program but may be required to take additional coursework to develop core competencies required for advanced graduate study.

MLA Research Degree
Graduate students with an LAAB accredited professional degree in Landscape Architecture and a significant history of achievement in professional practice may tailor a program of advanced study to meet their specific needs. Proposals for the MLA Research Degree option are reviewed by the Graduate Coordinator and an approved course of study is determined through consultation with the Graduate Committee.

The normal tenure of advanced graduate study is five semesters which includes a summer semester internship. Students complete a minimum of 52 credit hours composed of lecture courses, seminars, design and construction studios, internship and individual study (special studies, supervised research and thesis or terminal project).

This time period would be extended should a student elect to expand the course work or seek a concurrent degree in a related field.

Design studios: Graduate design studios build on required lecture and seminar courses. A core of three advanced design studios are topically-oriented focusing on issues of human, ecological and regional concern. Each studio requires students to engage a method appropriate to the studio's selected projects, to analyze the findings generated by this research and to use the findings to build a rational argument that leads to a defensible design position. Interdisciplinary and multidisciplinary collaborations are encouraged on both a formal and an informal basis. Graduate studio projects also deal with current issues related to the mission of the Department with an additional focus on research and community service.

Thesis or terminal project: The Department recognizes that students have different professional goals and personal strengths and interests. A thesis is appropriate for students interested in further research or teaching, or in pursuing advanced degrees. A

project (with a significant research component) is appropriate for students interested in design or project-oriented aspects of landscape architecture, or if their specific areas of interest suggest a nontraditional approach.

Programs, centers, and institutes: The College of Design, Construction, and Planning has several research centers and institutes. The course work and summer sessions afforded by these programs offer both required and elective course work for graduate students in landscape architecture:

The Center for Landscape Conservation Planning: The Center for Landscape Conservation Planning conducts applied research on the relationship between conservation and land use while providing learning opportunities for students.

The Center for International Design and Planning: The Center for International Design and Planning conducts interdisciplinary research with a focus on emerging design and planning trends in an era of globalization with a focus on resilient development systems and adaptive design and planning strategies.

The Preservation Institute: Nantucket gives students an opportunity to receive specialized educational experience in a broad range of preservation topics using Nantucket as a resource for case-study projects.

The Preservation Institute: Caribbean gives students an opportunity to conduct and apply research regarding the conservation of the rich cultural traditions of the Greater Caribbean basin.

The GEOPLAN Center is dedicated to the development of geographic and spatial information systems. Graduate students receive instruction in geographic information systems and are involved in a multidisciplinary studio that applies the tools and systems understanding afforded by GIS.

Graduate advisement: Students are initially advised by the Graduate Coordinator. He or she has guided the student's application through the acceptance process and is familiar with the student's background and needs. A plan of study is developed that includes required and optional courses. By the end of the second semester of study, each student is required to form a supervisory committee composed of two faculty members. The primary purpose of the graduate committee is to advise the student on educational objectives and the thesis or terminal project course work.

Application Procedure

Details of application procedure are found on the Department of Landscape Architecture's website. Applicants are encouraged to familiarize themselves with the details of the application procedures and the application requirements. Applications will ONLY be considered for the track for which they have been submitted. Make certain you are applying to the correct track based on your background and credentials and the criteria detailed above.

Application Dates

Applications are to be completed and submitted prior to the deadline noted on the Department's website. Unless otherwise noted, international applications must be received by November 1st. Applications from within the US are to be received no later than February 1st. Early applications are encouraged.

Application materials to be submitted online and/or to the Office of the Registrar

Application materials include the online application form accompanied by official transcripts, Letters of Recommendation, GRE scores, and TOEFL scores (applicants with English as a second language) to Office of the Registrar: Admissions Section, Criser Hall, University of Florida, Gainesville, Florida 32611.

Application Materials to be submitted directly to the Department

In addition to the materials submitted to the registrar's office, applicants must also submit a letter of intention to the Department of Landscape Architecture (Graduate Program Assistant).

Application Portfolio

All applicants are encouraged to submit a portfolio of creative works.

Post professional degree applicants applying for either the Pre MLA Fall Start or MLA Advanced Graduate Study program are required to submit a portfolio that both exhibits creative work experience and shows evidence of acquired technical proficiencies in the practice of landscape architecture.

All portfolio must be digital. PDF is preferred.

Application Status
Applications will be processed once all material has been received and must be complete prior to the application deadline. Applicants will be contacted by the Program Assistant if their application is incomplete. Please respond quickly if you have been contacted to increase the chances of your application being considered in the current review period. Only completed applications will be processed for review.

Once the application has been processed for review, applicants will receive written notification of their application status, generally sometime in the middle of March. Please do not contact the department with inquiries of your application status prior to the end of March.

Preparatory courses (see Undergraduate Catalog): LAA 2330, LAA 2350, LAA 2360, LAA 2370, LAA 3420, LAA 3350, LAA 3352,LAA 3421, LAA 3550, LAA 6716 , and ORH 3513.

Urban and Regional Planning Department

Director of School of Landscape Architecture and Planning: Kristin Larsen
Chair: Kristin Larsen
Graduate Coordinator: Stanley Latimer
Graduate Coordinator of Online Degree program: Jocelyn Widmer

The mission of the Department of Urban and Regional Planning is to educate the next generation of planning professionals to be good stewards of our built and natural environments, to conduct innovative research that improves quality of life for all, and to provide planning services to communities.

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, please see the Design, Construction, and Planning (Ph.D.) program page in this catalog, or the DCP Ph.D. website: https://dcp.ufl.edu/urp/academics/ph-d/.

Master of Urban and Regional Planning: The Department of Urban and Regional Planning offers graduate work leading to the degree of Master of Urban and Regional Planning (M.U.R.P.). The fifty-two credit graduate degree program can be earned on campus or online. The Planning Accreditation Board has accredited the campus-based program; students typically complete the campus-based degree program in two academic years. The online program targets practicing professionals with its flexible scheduling and sequencing of classes. Students with a master's degree in a related field may obtain approval from the Department to transfer up to 18 credit hours toward the 52-credit requirement. The department encourages students with any undergraduate degree who are interested in the field of planning to apply for admission.

The Department of Urban and Regional Planning and the Levin College of Law offer a joint degree program. The four-year program leads to a Juris Doctor and a Master of Urban and Regional Planning. Students may pursue Concurrent Degrees in Latin American Studies and in Transportation Engineering. Concurrent degrees allow the sharing of 9 credits between the two degrees. Areas of concentration with other programs in the Graduate School may be developed to meet the individual needs of students.

The department offers a combined undergraduate/graduate degree program with several UF departments and colleges including Sustainability and the Built Environment, Political Science, Forestry, and more. Please contact a College of Design, Construction

and Planning Advisor and/or Graduate Coordinator for Urban and Regional Planning to learn more and for information about application and approval procedures.

In addition to coursework, the student is required to complete an internship with a public agency or private planning firm and to complete a master's thesis or research project (in lieu of thesis) with faculty approval. The Department reserves the right to retain student work for purposes of record, exhibition, or instruction.

Complete descriptions of the requirements for the above-mentioned degrees are provided in the Graduate Degrees section of this catalog.

For more information, please see the program page below and our website: http://www.dcp.ufl.edu/urp.

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

Human Development and Organizational Studies in Education

Director: M. David Miller
Graduate Coordinator: Patricia Ashton

Programs leading to the Master of Arts in Education (M.A.E.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees are offered through this school with programs in Counseling and Counselor Education, Educational Leadership, Higher Education Administration, Marriage and Family Counseling, Mental Health Counseling, Research and Evaluation Methodology, School Counseling and Guidance, and Student Personnel in Higher Education.

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

More information can be found at our website: http://education.ufl.edu/hdose.

Special Education, School Psychology and Early Childhood Studies Department

Director: Holly Lane

The School of Special Education, School Psychology, and Early Childhood Studies offers online and face-to-face programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

The School offers graduate study and research experience in 3 areas of specialization: Special Education; School Psychology; and Early Childhood Studies. Programs are accredited by the Florida Department of Education and approved by the National Council for Accreditation of Teacher Education (NCATE). The School Psychology program is approved by the NCATE and the National Association of School Psychologists (NASP). The Ph.D. program in School Psychology is accredited by the American Psychological Association (APA).

For more information, please visit https://education.ufl.edu/special-education/ .

School of Teaching and Learning

Director: Ester de Jong
Graduate Coordinator: Sevan G. Terzian

The School of Teaching and Learning (http://education.ufl.edu/school-teaching-learning) offers face-to-face and online programs leading to the Master of Education (M.Ed., non-thesis), Master of Arts in Education (M.A.E., thesis or project in lieu of thesis), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.) degrees. Descriptions of the programs are linked below, and official requirements for these degrees are provided in the Graduate Degrees section of this catalog.

Students pursuing the Ph.D. degree in Curriculum & Instruction gain research and teaching experience in one of 10 areas of specialization: Curriculum, Teaching, & Teacher Education (CTTE); Educational Technology; English Education; ESOL/Bilingual Education; Language Arts, Reading, & Children's Literature (LARC); Mathematics Education; Science & Environmental Education; Social Foundations of Education; Social Studies Education; and Statistics Education. The Ed.D. degree is a professional practice doctorate with two specialization areas for students to pursue online: Curriculum, Teaching, & Teacher Education (CTTE) and Educational Technology. Various forms of financial support are available to Ph.D. students through fellowships, scholarships, research assistantships, and teaching assistantships.

Students aspiring to careers in teaching will be interested the following programs. The nationally recognized ProTeach graduate program leads to the M.Ed. degree and state certification as a classroom teacher. Unified Elementary ProTeach admits undergraduates who complete the five-year program with a master's degree. Secondary Proteach (English, Science, Social Studies) prepares teachers who have completed a bachelor's degree in the discipline they will teach. Prospective elementary teachers who already hold a bachelor's degree in a non-education field may want to consider the School's SITE program (Site-based Implementation of Teacher Education).

The School of Teaching and Learning also offers graduate programs and specializations at the M.Ed., M.A.E, and Ed.S. degrees for students seeking to deepen their knowledge and to advance within their professions. These include Educational Technology, English Education, ESOL/bilingual Education, Language Arts, Reading & Children's Literature (LARC), Literacy & the Arts, Mathematics Education, Media Literacy Education, Reading Education, Science Education, Social Foundations of Education, Social Studies Education and Teacher Leadership for School Improvement (TLSI).

Herbert Wertheim College of Engineering

Dean: C. Abernathy

The Herbert Wertheim College of Engineering is organized into a number of departments focusing on today's most pressing engineering questions. There is an interdisciplinary culture at the core of Gator Engineering, though, and researchers regularly collaborate with colleagues in departments and colleges beyond their own.

For more information, please see our website: http://www.eng.ufl.edu

Agricultural and Biological Engineering Department

Herbert Wertheim College of Engineering

Chair: Dorota Z. Haman
Graduate Coordinator: Greg Kiker

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

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.

The Master of Science, Master of Engineering, and Doctor of Philosophy degrees are offered in the following areas of research:

Agricultural production engineering includes development and application of precision agriculture concepts and tools, weather and climate risk in agriculture, decision support systems, food security, pesticide application, post-harvest operations, robotics and other machine systems and environmental control systems. Applications to space biology are included in cooperation with NASA at Kennedy Space Center.

Biological engineering includes biocomplexity analysis, ecological modeling, risk and decision analysis, 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, data solutions 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, 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.

For more information about the program, please visit the program link below and the graduate studies pages on the departmental website at http://www.abe.ufl.edu.

J. Crayton Pruitt Family Department of Biomedical Engineering

Chair: C. Schmidt
Graduate Coordinator: Cherie Stabler

The mission of the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) is to educate students with strong engineering and science backgrounds for Master's and/or Ph.D. degrees in biomedical engineering. Graduates in BME typically apply their skills and training directly to engineering solutions to clinical problems in medicine. The BME mission is accomplished through a core program of study that has strong collaborations with faculty in the Colleges of Engineering and Medicine.

Degrees offered include: Doctor of Philosophy, Master of Science (thesis and non-thesis options), and Master of Engineering. More details regarding these degrees and the minimum entry requirements are provided at http://www.bme.ufl.edu/academics/graduate.

The Biomedical Engineering Department faculty members work collaboratively with joint, affiliate, and adjunct faculty from many other departments in the College of Engineering, the College of Medicine, and local industry. This diversity ensures students the highest-quality education and varied opportunities for cutting-edge research.

Areas of research within these graduate programs include:

- Neural Engineering
- Imaging & Medical Physics
- Biomaterials & Regenerative Medicine
- Biomedical Data Sciences

More information about our dynamic and collaborative department is available at: http://www.bme.ufl.edu.

Chemical Engineering Department

Interim Chair: Carlos Rinaldi
Graduate Coordinator: Fan Ren
Master Students Coordinator: Yilder Tseng

The Chemical Engineering Department offers the degrees of Doctor of Philosophy, Master of Science (thesis and non-thesis options), and Master of Engineering in Chemical Engineering. Minimum requirements for these degrees are given in the Graduate Degrees section of this catalog.

The Ph.D., M.E., and M.S. degrees in chemical engineering require course work in three core areas:

- *The chemical engineering basis* area, consisting of three core courses in the mathematical, the molecular, and the continuum bases of chemical engineering
- *The chemical engineering science and systems* area, consisting of a selection of courses in such areas as transport phenomena, electrochemical engineering, thermodynamics, kinetics, reaction engineering, process control, separation processes, and heat and mass transfer
- *The research specialty* area, consisting of courses designed to build depth in a field of specialization. Courses may be from other academic units, or may be chemical engineering courses such as colloid science, corrosion, polymer science, advanced materials, and biochemical engineering.

For more information, please see the program page below and our website: http://che.ufl.edu.

Civil and Coastal Engineering Department

Chair: K. Hatfield
Graduate Coordinator: A. Drescher

The Department of Civil and Coastal Engineering offers two distinct graduate programs: civil engineering and coastal and oceanographic engineering. All degrees except the Ph.D. are available in a thesis or nonthesis option. The nonthesis option has two formats: report and 30-hour non-report. Students who elect the nonthesis report must successfully complete a document of substantial engineering content for a minimum of two hours credit in CGN 6974 for civil engineering majors, or EOC 6905 for coastal and oceanographic engineering majors.

Civil and Coastal Engineering degree programs include areas of specialization in construction, civil engineering management, geotechnical engineering, water resources and hydrology, public works, structural engineering, civil engineering materials, geosensing systems engineering, coastal engineering, oceanographic engineering and offshore structures, and transportation engineering.

Minor or supporting work is encouraged from a variety of related or allied fields of study. Ph.D. students are required to take a preliminary examination. Requirements for the M.S., M.E., and Ph.D. degrees are given in the Graduate Degrees section of this catalog.

Computer and Information Science and Engineering Department

Herbert Wertheim College of Engineering

Chair: Juan Gilbert, The Banks Preeminence Chair in Engineering
Graduate Coordinator: Ahmed Helmy

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Ph.D., Master of Engineering, and Master of Science degrees in computer engineering through the College of Engineering
- Ph.D. degree in Computer Science through the College of Engineering
- Ph.D. degree in human-centered computing through the College of Engineering
- Master of Science degree in computer science through the College of Engineering
- Master of Science degree in digital arts and sciences through the College of Engineering
- Master of Science degree in computer science through the College of Liberal Arts and Sciences

The department also offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

The CISE Department has six broad areas of specialization:

- **Computer systems**: computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems**: database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms**: design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art**: modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision**: artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security**: wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing the appropriate number of core courses as specified by their degree program or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours.

The thesis degree requires:

- A minimum of 6 credit hours must be taken in CIS 6971 Master's Research.
- Specific degree requirements can be found at: https://www.cise.ufl.edu/academics/grad

The non-thesis option requires:

- Each nonthesis master's student is required to pass a comprehensive examination.
- Specific degree requirements can be found at: https://www.cise.ufl.edu/academics/grad

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, Ph.D. students who major in Computer Engineering or Computer Science must take 4 required core courses obtaining a 3.4 GPA in 3 of the 4 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

To demonstrate breadth and proficiency, Ph.D. students who major in Human-Centered Computing must take 3 required core courses obtaining a 3.4 GPA in 2 of the 3 required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

Human Centered Computing (HCC) Ph.D.

The degree is focused on the design, construction, and evaluation of computational technologies as they relate to the human condition and impacts on society in general. The purpose of the HCC PhD degree is to train a new generation of computing researchers/developers that design, implement, and evaluate computing systems and technologies in real world, or applied, contexts.

HCC PhD degrees exist because the expertise required for this degree does not fit in traditional Computer Science (CS) or Computer Engineering (CE) PhD programs. CS & CE PhD programs have requirements for computer systems and theory.

For more information, please see the program pages below, or visit our website: http://www.cise.ufl.edu

Electrical and Computer Engineering Department

Chair: J. Harris
Graduate Coordinator: John Shea

The Department of Electrical and Computer Engineering offers the Master of Science and Doctor of Philosophy degrees. Minimum requirements for these degrees are given in the Graduate Degrees Section of this catalog. For more information about our program, please visit the link below.

Environmental Engineering Sciences Department

Director: Kirk Hatfield
Graduate Coordinator: Chang-Yu Wu

The Department of Environmental Engineering Sciences offers graduate study in the following areas: Air Resources; Biogeochemical Systems; Environmental Nanotechnology; Solid and Hazardous Waste Management; Storm Water, Water Supply and Waste Water; Sustainability Science & Engineering; Systems Ecology and Ecological Engineering; and Water Resources. Students graduated from the program will demonstrate depth in individual focus areas as well as breadth of core knowledge concepts in all areas.

Please visit the program page below and our website: http://www.essie.ufl.edu for more information about our program in Environmental Engineering Sciences.

Industrial and Systems Engineering Department

Interim Chair: L. Elefteriadou
Graduate Coordinators: P. Momcilovic and J.P. Richard

The Department of Industrial and Systems Engineering offers the Master of Engineering and the Master of Science degrees, each with a thesis or nonthesis option, with specialization in engineering management, manufacturing and logistics systems engineering, operations research, quality engineering, and special interest options such as health systems. In addition, the Department offers the Doctor of Philosophy degree with specialization in linear, combinatorial, nonlinear, and global

optimization; supply chain management and e-commerce; financial engineering; manufacturing management; facilities location and layout; quality engineering; and stochastic processes.

Complete descriptions of the requirements for the M.E., M.S., and Ph.D. degrees are provided in the *General Information* section of this catalog.

A degree in one of the engineering disciplines or in mathematics, statistics, physics, computer sciences, quantitative management, or similar fields is prerequisite. Where the student's background is deficient, an articulation program of foundation courses will be required.

The Department offers a combined bachelor's/master's degree program of B.S.I.S.E./Master of Science (Management), B.S.I.S.E./Master of Engineering or Master of Science, and a B.S. from disciplines within the College of Engineering/Master of Science or Master of Engineering. Contact the graduate coordinator for information.

Materials Science and Engineering Department

Chair: M.V. Manuel
MSE Graduate Coordinator: W.M. Sigmund
NE Graduate Coordinator: L. Winfrey

The Department of Materials Science and Engineering offers the Master of Science, Master of Engineering, and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are (1) satisfaction of Graduate School admission requirements prior to the beginning of the senior year, (2) an upper division GPA of at least 3.5 in MSE and 3.4 in NE, (3) for MSE, completion of a minimum of 18 credit hours of courses, (4) admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School. For more information, contact the Department.

The J.D./M.S. in MSE (thesis/nonthesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/nonthesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

Concurrent M.D./Ph.D. degrees are offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

Mechanical and Aerospace Engineering Department

Chair: David W. Hahn
Graduate Coordinator: David W. Mikolaitis

The Department of Mechanical and Aerospace Engineering offers the degrees of Master of Science (thesis or nonthesis), Master of Engineering (thesis or nonthesis), and Doctor of Philosophy in Aerospace Engineering and Mechanical Engineering. Minimum requirements for these degrees are given in the Graduate Degrees section of this catalog.

Prospective students are expected to have strong backgrounds in engineering. For the first year of study, each student is generally required to take a minimum of three regular courses each semester. There are three areas of specialization available for graduate studies: dynamics, systems, and control; solid mechanics, design, and manufacturing; thermal science and fluid dynamics. Within a specialization there are unique opportunities to conduct analytical, experimental, and/or numerical study in a wide variety of challenging problems.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please see the program pages below and our website: http://www.mae.ufl.edu/current/graduate.

Nuclear and Radiological Engineering Department

The graduate degrees offered with a major in Nuclear Engineering Sciences are now administered through the Materials Science and Engineering Department.

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

For more information about the College of Health and Human Performance, please see our website: http://hhp.ufl.edu

Applied Physiology and Kinesiology Department

Chair: T. Clanton
Graduate Coordinator: C. Hass

The **Ph.D. program** is offered with concentrations in biobehavioral science and exercise physiology. Students in the biobehavioral science concentration specialize in one of four areas: biomechanics, performance psychology, motor control / learning, or sports medicine. These interdisciplinary concentrations focus on preparing students as researchers with a blend of course work and research training.

Programs leading to the **Master of Science** degree in applied physiology and kinesiology (thesis and non-thesis options) are also offered. Areas of concentration for the master's program include athletic training/sports medicine, biobehavioral science, clinical exercise physiology, exercise physiology, and human performance. The thesis option gives the student an opportunity to study, conduct research, and prepare a thesis in an area of special interest. The non-thesis option offers the student a specialization in a selected area of study, with additional work in other complimentary areas to meet the student's interests and the specialty skills needed to be leaders in the field. A comprehensive written examination is required for this option, as is a capstone internship experience. Requirements for these degrees are given in the *General Information* section of this catalog.

Athletic training/sports medicine: This concentration provides comprehensive academic preparation, research, and clinical experience in the areas of injury prevention, assessment, treatment, rehabilitation, and therapeutic modalities.

Biobehavioral Science: This thesis mandatory concentration is multidisciplinary and flexible, permitting students to tailor their scholarly experience to the development of research skills in one of several related disciplines: biomechanics, motor control and learning, and performance psychology. Each area of specialization is briefly described below.

- *Biomechanics:* The specialization in biomechanics draws from the fields of neuroscience, engineering, and medicine. The course work and training include kinematics and kinetics of movement. Course work also includes anatomy/kinesiology, biomechanics, engineering, neuroscience, medicine, psychology, physical therapy, and statistics.
- *Motor learning / control:* This interdisciplinary specialization draws on experiences and a knowledge base in the movement and sport sciences, cognitive sciences, and physical therapy. Students are prepared to conduct research and provide expertise in traditional motor performance and learning settings.
- *Performance psychology*: This area of specialization provides the basis for understanding and influencing the underlying thought processes and attitudes that will ultimately determine the performance of individuals involved in sport, exercise, and other achievement oriented activities. The primary emphasis is to develop the scientific background and skills necessary for doctoral training and research.

Clinical exercise physiology: The purpose of this non-thesis program is to give students the opportunity to develop advanced knowledge and competencies in Exercise Physiology. Clinical Exercise Physiologists typically practice in hospitals, clinics and wellness centers as part of a health care team that administers tests and develops programs of exercise, counseling, and education for patients with cardiopulmonary, metabolic, and musculoskeletal diseases.

Exercise physiology: This thesis mandatory area of concentration is concerned with the scientific study of how the various physiological systems of the human body respond to physical activity. It is a multidisciplinary field with strong ties to the basic life sciences and medicine, and application to clinical, normal, and athletic populations.

Human performance: This non-thesis master's concentration merges a range of specializations within the Department into a curriculum that provides educational experiences to graduate students interested in studying the factors that determine human performance in both athletic and nonathletic domains. This flexible approach allows students to focus on specific applications that best meet their individual interests. Human performance incorporates components such as nutrition, psychology, motor behavior, and physiology that are applicable to athletic and clinical populations.

Department of Health Education & Behavior

Chair: Jalie A. Tucker
Graduate Coordinator: Robert Leeman

The Department of Health Education & Behavior offers a Doctor of Philosophy (Ph.D.) in Health and Human Performance with a concentration in Health Behavior, a non-thesis 30-credit hour Master of Science and a 36-credit Master of Science (M.S.) in Health Education and Behavior. Requirements for the Ph.D. and M.S. degrees are given in the *General Information* section of this catalog.

The Ph.D. degree program trains health behavior researchers for academic positions in federal health agencies such as the Centers for Disease Control and Prevention and the National Institutes of Health, for postdoctoral research fellowships and for the private sector.

The 30-credit hour, non-thesis M.S. degree program is designed for students seeking an advanced practitioner's degree. A distinctive feature of this option allows students to choose a minimum of 15 credit hours of major elective coursework that matches their interests with faculty expertise to plan a program that achieves their professional goals. The degree prepares health promotion specialists to work in local, state, and federal health agencies, nongovernmental health organizations, patient care settings, and the private sector. Full-time students can complete this M.S. option in one year. This degree may also give students unique and distinguishing training experiences when applying to professional schools such as law, medicine, physician assistant, dentistry, chiropractic, osteopathy, nursing, occupational therapy, and physical therapy.

The 36-credit hour project in lieu of thesis, and the 36-credit hour thesis options are designed for students interested in developing research skills through conducting evaluation projects and empirical studies, as well as pursuing advanced graduate study, particularly the doctoral degree. Students typically can complete these options in about 4 semesters.

The Department also offers an accelerated B.S./M.S. program in health education and behavior to enable students to receive both B.S. and M.S. degrees with a reduction of 12 credits (about one semester of course work).

Students who complete a graduate degree program in the Department of Health Education & Behavior acquire a range of skills required to research, plan, implement, and evaluate health promotion policies and programs aimed at improving the health and well-being of individuals, families, and communities. Specific skills include:

- Conducting needs and capacity assessments to identify health priorities
- Planning, implementing, and evaluating health promotion policies and programs

- Conducting research on questions associated with health problems and their determinants and health promotion policies and programs
- Administering and managing health promotion programs
- Advocating for health promotion policies and programs in schools, communities, health care facilities, and worksites
- Developing social marketing and health communication messages and campaigns
- Researching and developing social media and new media-based health promotion applications
- Serving as a resource person for health information and referrals
- Using a variety of teaching-learning strategies appropriate to the target audience and setting
- Writing scholarly and professional articles
- Working collaboratively with public and private agencies, nongovernmental organizations (NGOs) and the private sector to achieve the goal of a healthier population.

This degree prepares the health promotion specialists and health behavior scientists to work in:

- Local, state, and federal health, education and social agencies
- Nongovernmental health organizations
- Schools and universities
- Healthcare settings
- Private sector

Sample position titles for individuals with this degree include:

- Health education specialist
- Health promotion specialist
- Public health adviser or public health analyst
- Health promotion coordinator or health promotion consultant
- Campus health educator or patient health educator,
- Health communication specialist
- Wellness specialist
- Wellness promotion coordinator
- Prevention specialist

For additional information, visit http://www.heb.hhp.ufl.edu.

Tourism, Recreation, and Sport Management Department

College of Health and Human Performance

Chair: Michael Sagas
Graduate Coordinator: Kyriaki Kaplanidou

The degree Master of Science is offered by the Department of Tourism, Recreation, and Sport Management with programs in Sport Management and in Tourism and Recreation Management. Both programs offer thesis and non-thesis formats. The Department participates in the Ph.D. program in Health and Human Performance. Minimum requirements for these degrees are given in the Graduate Degrees section of this catalog.

The Master's program provides advanced preparation of tourism, recreation, and sport management professionals for positions of leadership in planning, developing, administering, and marketing of programs in a variety of employment settings both public and private. Major coursework may be taken in a number of areas, such as:

- Tourism and Recreation Management
- Sport Management

The Doctoral program is offered through the College of Health and Human Performance with concentrations in recreation, parks and tourism and sport management. These interdisciplinary specializations blend course work and research. The curriculum is individualized, and applicants with degrees from unrelated fields can be accepted into the program. However, their previous work will be evaluated and their programs planned according to their individual needs, interests, and career objectives.

Combined program: The Department offers a combined bachelor's/master's degree program. This program allows qualified students to earn both a bachelor's degree and a master's degree with a savings of approximately one semester. Up to 12 approved graduate credit hours can be utilized toward both degrees.

MS/MSM Concurrent Degree Program: This joint degree program is offered through the College of Business Administration (Master of Science in Business Management [MSM]) and the College of Health and Human Performance's, Department of Tourism, Recreation and Sport Management (Master of Science in Sport Management [MS]). Applicants must apply to both programs and be admitted to both to participate. The MS/MSM is a non-thesis degree. The MS/MSM is designed for students who seek a graduate business degree and who lack the work experience necessary for admission to the MBA program. The MS/MSM curriculum is similar to the first year of the MBA program, giving students a good foundation in business principles. Concurrent degree students can share up to 9 credit hours of the same coursework towards both degree programs. They do not have to graduate during the same semester. Students admitted into the concurrent program must work closely with both departments to verify all requirements are being met during their course of study.

M.S./J.D. joint program: This 98-credit-hour joint degree program culminates in the Master of Science and the Juris Doctor degrees. Applicants must meet the entrance requirements for the Department of Tourism, Recreation, and Sport Management and the College of Law. Admission to the second degree program is required no later than the end of the fourth consecutive semester after beginning one of the degree programs. The student's supervisory committee comprises faculty members from both the Department of Tourism, Recreation, and Sport Management and the College of Law. Students admitted into the joint program are permitted to share up to 12 credit hours of the same coursework towards both degree programs. Students must graduate during the same semester from both programs.

College of Journalism and Communications

Dean: D. McFarlin
Senior Associate Dean for Graduate Studies and Research: D. Treise

Graduate Coordinators:
(Advertising) J. R. Goodman
(International Communication) K. Walsh-Childers
(Journalism) R. Rodgers
(Public Relations) M.A. Ferguson
(Pro Master's) B. Grogan
(Science/Health Communication) D. Treise
(Telecommunication) J. Babanikos

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 which is divided into two areas-PhD preparation and professional development, and the Master of Advertising (thesis) degree. Requirements for these degrees are given in the Graduate Degrees section of this catalog.

Doctoral students work closely with faculty members in research leading to a dissertation embodying a humanities, law/policy, or social sciences approach. Emphases within these approaches for which faculty members have expertise include advertising, journalism, public relations, telecommunication, international communication, and political communication. Details of doctoral faculty research interests and other aspects of the program are given in the College's Ph.D. Handbook.

The master's program is a two-track system, one focused on PhD preparation and one on professional development. In the PhD-preparation program, you learn the ideas and skills you need for satisfying life-long careers in mass communication. You can choose to obtain a Master of Arts in Mass Communication degree by selecting one of the specializations below or by enrolling in the Master of Advertising program.

Master's students in the PhD-preparation track may complete a thesis in advertising, journalism, public relations, telecommunication, international communication, or science/health communication. A project in lieu of thesis option is available for some specializations.

The Pro Master's track allows students to "mix and match" coursework from three key career areas-Data/Research, Creative or Management - to develop a customizable curriculum. Students can use the suggested curriculum or create their own path to reach personal career goals.

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 or two years of full-time study. Doctoral

studies require three or more years of full-time study and research. Students who may require articulation courses should contact the Sr. Associate Dean of Graduate Studies and Research.

Grading policy: Any student whose cumulative GPA falls below 3.0 will be placed on probation. Any doctoral student who receives one grade below B- or a Master's student who receives one grade below C+ will be placed on probation, with the exception of courses taken from the Levin College of Law. For these courses, any student receiving one grade below C in any course from the Levin College of Law will be placed on probation. A requirement of the probation is that the student must achieve or maintain a cumulative grade point average of 3.0 or higher at the end of the next academic term in residence. A student who fails to satisfy the requirement will be suspended. A Doctoral student who accumulates two grades below "B-"-- or a Master's student who accumulates two grades below C+ during graduate studies will be suspended, as will a student who receives one grade of "D+" or lower at any time. Students will be allowed only one suspension.

Combined degree program: The College offers a combined bachelor's/master's program. For information, contact the Associate Dean for Undergraduate Affairs.

For additional information, please see our website: http://www.jou.ufl.edu/grad.

Fredric G. Levin College of Law

Dean: Laura Rosenbury

The University of Florida Levin College of Law has a longstanding tradition of producing national leaders, including current American Bar Association President Stephen Zack, and is one of the nation's best values in legal education.

For more information, please see our website: http://www.law.ufl.edu

Comparative Law Department

Director and Graduate Coordinator: Lyrissa Lidsky

The LL.M. in Comparative Law degree is designed for graduates of foreign law schools who want to enhance their understanding of the American legal system and the English common law system from which it evolved. Requirements for this degree are given in the Graduate Degrees section of this catalog.

The program begins with Introduction to the Legal System of the United States for LLM in Comparative Law Part I, a 2-credit summer course that gives students a foundation in the American legal process. It also helps students acclimate to the College of Law and the University community before to the start of the academic year. During the fall and spring terms, the students complete an additional 2 credits of comparative studies plus 2 credits for legal research and writing. With the director's approval, students choose their remaining 20 credits from more than 100 Juris Doctor courses and seminars.

For admission information please see our website: https://www.law.ufl.edu/areas-of-study/degree-programs/ll-m-in-comparative-law-program or write to the Comparative Law Office P.O. Box 117643, University of Florida, Gainesville, FL 32611-7643 USA.

Environmental and Land Use Law Department

Director and Graduate Coordinator: Christine A. Klein

Florida's sensitive, varied and beautiful natural environment makes the University of Florida a natural choice for students who want to focus on the national and global issues of land use and environmental law. Florida provides a perfect setting to study first-hand the efforts to reconcile growth and conservation.

The University of Florida Levin College of Law offers a Masters (LL.M.) in Environmental and Land Use Law. This 26 credit post-J.D. degree provides an opportunity for experienced attorneys as well as recent law school graduates to develop in-depth expertise in environmental and land use law.

For more information, please see the program page below and our website: https://www.law.ufl.edu/areas-of-study/degree-programs/ll-m-environmental-land-use-law.

Taxation Department

Director of Graduate Tax Program: Fred Murray
Director of International Tax Program: Mindy Herzfeld

Graduate study in the field of taxation leading to the Master of Laws in Taxation degree or to the Master of Laws in International Tax degree is available in the College of Law.

Applicants for admission to the Graduate School for these degrees must hold a law degree from an accredited law school or in the case of international students, from a recognized foreign university but need not submit scores on the Graduate Record Examination. For further information concerning admission consult the *Graduate Tax Program Catalog*, or write the Tax Office, 320 Holland Law Center.

College of Liberal Arts and Sciences

Interim Dean*:* David Richardson

The College of Liberal Arts and Sciences constitutes the intellectual core of the university. Its principal mission is to lead the academic quest to understand our place in the universe, and to help shape our society and environment.

For more information, please see our website: http://www.clas.ufl.edu

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at http://www.animal.ufl.edu/amcb/.

Anthropology Department

Chair: C. McCarty
Graduate Coordinator: J. Davidson

The Anthropology Department takes pride in maintaining a holistic perspective, bridging the four traditional fields that have composed the discipline: sociocultural, archaeological, biological, and linguistic anthropology. Both graduate students and faculty conduct research that cut across the four-fields, and extend anthropological investigations into other disciplines.

The graduate program is a mentoring program emphasizing the PhD degree. Students are mentored by faculty advisors, together with supervisory committees chosen by students with the advice of advisors. Graduate students are expected to be in residence to attend classes and seminars, and receive individualized training. Distance-education graduate degrees are not offered. Students formally report on their progress each year, and the progress of each graduate student is evaluated by the faculty in their primary field.

Students receiving graduate degrees are well-prepared intellectually and professionally for success in a wide variety of careers, and become leaders in developing the next generation of anthropology. The department offers teaching experience and resources for presenting conference papers, submitting grant proposals, conducting fieldwork, and other activities appropriate to their professionalization. Graduate students are welcome to contribute to discussions in departmental meetings, and serve on some departmental committees.

Astronomy Department

Chair: C. Telesco
Graduate Coordinator: V. Sarajedini

The University of Florida's Astronomy Department is one of the largest in the country. Research is an integral part of the graduate program. Students have opportunities to work with faculty and staff on a broad range of astronomical problems using in-house,

national and international, and ground- and space-based facilities. Support for graduate studies is available through fellowships, research assistantships, and teaching assistantships. For more information on the program, please follow the link below or visit our website.

Biology Department

Chair: Marta L. Wayne
Graduate Coordinator: John (Gordon) Burleigh

The Department of Biology offers two graduate programs: Botany and Zoology. Both programs offer graduate work leading to the degrees of Master of Science, Master of Science in Teaching, and Doctor of Philosophy. Requirements for these degrees are available in the Graduate Degrees section of this catalog.

More information regarding these programs is available by following the links below and by visiting our departmental website: http://www.biology.ufl.edu.

Chemistry Department

Chair: W. Dolbier
Graduate Coordinator: B. W. Smith

The Department of Chemistry granted its first master's degree in 1909 and the first Ph.D. in 1930. Specializations in biochemistry, organic, physical, inorganic and analytical are offered with extensive interdisciplinary research opportunities (e.g., bio/nano-science, particle science, green chemistry, polymer chemistry, chemical physics, health related biochemistry, chemistry-engineering, and genomics).

The Department presently offers the Master of Science and Doctor of Philosophy degrees with a major in chemistry. The non-thesis Master of Science in Teaching degree is also offered with a major in chemistry.

For more information, please visit https://www.chem.ufl.edu/.

Classics Department

Chair: Mary Ann Eaverly
Graduate Coordinators: Jennifer Rea, Biagio Santorelli, Velvet Yates

The department offers the following degrees and programs: the Doctor of Philosophy in classical studies; the Master of Arts degree in classical studies or Latin; the Master of Latin degree, and the Master of Arts in Teaching degree in Latin. Requirements for these degrees are given in the *Graduate Degrees* section of this catalog.

Within the Ph.D. program are three tracks:

- Philology (prepares students for careers in colleges and universities)
- Classical civilization (available via distance course work)
- Latin and Roman studies (available via distance course work).

Requirements for the philology track of the doctoral degree include:

- 60 credit hours after the M.A. (or a total of 90 credit hours)
- Five additional seminars after the M.A. in classics at the 500 level or higher
- Three of the following seminars: GRE 6425, GRW 6105, LAT 6425, LNW 6105, and CLA 6805
- A reading knowledge of two modern languages, one of which must be German
- Reading lists in Greek and Roman authors
- Supervised experience in teaching Latin, Greek, or civilization courses is advised
- Successful completion of a series of qualifying examinations appropriate to the chosen specialization (Greek reading; Latin reading; classical Greek literature in its historical context; classical Latin literature in its historical context; special author/topic)
- An oral preliminary examination, dissertation, and final examination

The M.A. degree in classical studies is recommended for students who plan to continue on to the doctoral level. The M.A. degree in Latin is recommended for students who plan to pursue a career in secondary teaching. Both M.A. programs require 30 credit hours, including 6 credits of GRW 6971 or LNW 6971, a thesis, and final examination.

The Master of Latin degree is a non-thesis degree, designed for currently employed and/or certified teaching professionals who wish to widen their knowledge of Latin, broaden their education in the field of classics, and enhance their professional qualifications through a program of summer course work and directed independent study and/or distance learning courses during the regular academic year. The Master of Arts in Teaching, a non-thesis degree, is offered with a program in Latin and is intended for students preparing to teach in community colleges or high schools.

Computer and Information Science and Engineering Department

Chair: Juan Gilbert

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

The Department of Computer and Information Science and Engineering (CISE) offers

- Ph.D. in Computer Engineering, Computer Science, Human-Centered Computing and Computer Engineering.
- Master of Engineering in Computer Engineering.
- Master of Science degree in Computer Science through the College of Engineering.
- Master of Science degree in Digital Arts and Sciences through the College of Engineering.
- Master of Science degree in Computer Science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- Computer systems: computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- Database and information systems: database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics

- **High-performance computing/applied algorithms**: design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art**: modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision**: artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security**: wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.

All master's students must satisfy a core requirement by completing the appropriate number of core courses as specified by the degree program or their approved equivalents with no more than one of the core courses receiving a letter grade below "B." Students can select a thesis or nonthesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- A minimum of 6 credit hours must be taken in CIS 6971.
- Specific degree requirements can be found at: https://www.cise.ufl.edu/academics/grad

The non-thesis option requires:

- Each nonthesis master's student is required to pass a comprehensive examination.
- Specific degree requirements can be found at: https://www.cise.ufl.edu/academics/grad

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take required core courses. Depending upon the major, they must earn a 3.4 GPA in specific (to the major) required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980. A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combined bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: http://www.cise.ufl.edu

Economics Department

College of Liberal Arts and Sciences

Chair: R. D. Blair
Graduate Coordinator: S. M. Slutsky

The department offers the Master of Arts (thesis and nonthesis option) and Doctor of Philosophy degrees in economics with specializations in econometrics, economic theory, industrial organization, international economics, monetary economics, and public finance. Complete descriptions of the minimum requirements for the M.A. and Ph.D. degrees are provided on the Graduate Degrees Page of this catalog.

For more information, please visit https://economics.clas.ufl.edu/.

English Department

Chair: S. I. Dobrin
Graduate Coordinator: Leah R. Rosenberg

The Department of English offers a MFA degree in creative writing and a PhD degree in English. The PhD program accepts both students who have completed an MA degree and those who have completed only a BA. Complete descriptions of the minimum requirements for the MFA and PhD degrees are provided in the Graduate Degrees section of this catalog. For more information about our programs, please follow the hyperlinks below or visit our website: http://www.english.ufl.edu/programs.html.

Geography Department

Chair: Jane Southworth
Graduate Coordinator: Cynthia Simmons

The Department of Geography offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the General Information section of this catalog.

The focus of the Department is in human-environment interactions, with "environment" interpreted very broadly. The Department provides four main areas of specialization for graduate research: economic and cultural geography; resource management and land use and land cover change; medical geography; and physical geography. Economic and cultural geography concerns such topics as spatial economic theory and; housing and care of the elderly. Resource management and land-use and land-cover change focus on agricultural change and resource conservation and development in the tropics and subtropics, and rural and urban land use and land cover change in tropical and temperate regions. Africa and Latin America are the primary areas of regional emphasis outside of the U.S. Physical geography in the Department concentrates on climatology, fluvial geomorphology, and hydrology. Medical geography studies the geographic aspects of human health including disease ecology and transmission and healthcare issues. The Department's extensive geographic information system, remote sensing, and computer cartography teaching and research facilities contribute to and support all of the areas of research. Faculty from the Department are also major participants in the Emerging Pathogens Institute, Florida Climate Institute, Land Use and Environmental Change Institute (L.U.E.C.I.), and the Water Institute. Prospective students should examine the research interests of the Graduate Faculty to obtain a more detailed sense of the Department's specialties (see the departmental website: www.geog.ufl.edu).

To ensure the incorporation of relevant interdisciplinary perspectives in each student's program, the Department maintains close ties with other departments in Liberal Arts and Sciences, and with programs in African studies, Latin American studies, the School of Natural Resources and Environment, the Institute on Aging, urban and regional planning, tropical agriculture, tropical ecology,, water resources, the Warrington College of Business Administration, the College of Agricultural and Life Sciences, College of Public Health and Health Professions, and the Hydrological Sciences Academic Cluster. Certificates in certain of these fields may be obtained in addition to graduate degrees in geography. Geography administers the Graduate Certificate in Applied Atmospheric Sciences.

A graduate student should preferably have an undergraduate major in geography, but applicants with degrees in one of the social or physical sciences are accepted into the Department's graduate program. Deficiencies in undergraduate work in geography must be corrected concurrently with registration in graduate level courses. All students in the graduate program are required to take courses in contemporary geographic thought and geographic research skills.

The Department offers a combined bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please visit https://geog.ufl.edu/.

Geological Sciences Department

Chair: David A. Foster
Graduate Coordinator: R. M. Russo

The Department of Geological Sciences is composed of a group of internationally recognized faculty, graduate students, and dedicated support staff. Faculty and students in the Department of Geological Sciences are involved in exciting and groundbreaking research projects throughout the world and in Florida. The Department houses world-class analytical and computing facilities for research and teaching.

The Department has identified six primary areas of emphasis in its research and teaching programs: environmental geology and hydrology, paleoclimatology, tectonophysics, geochemistry and mineralogy/petrology, marine and coastal geology, and paleomagnetism. The Department has collaborative, interdisciplinary programs of study and research with the Florida Museum of Natural History, the Center for Wetlands Research, the Land Use and Environmental Change Institute (L.U.E.C.I.), the Florida Climate Institute, and the University of Florida Water Institute.

For information on our degree programs, current departmental activities, faculty, and research centers, please see the program page below and http://geology.ufl.edu.

History Department

College of Liberal Arts and Sciences

Chair: Sean P. Adams
Graduate Coordinator: Elizabeth Dale

The Department of History offers the following graduate degrees: Master of Arts with fields of specialization in African, Asian, European, Latin American, and United States history, and the Doctor of Philosophy with fields of specialization in African, European, Latin American, and United States history. In addition to materials required by the Graduate School for admission, applicants must send directly to the History Department the following evidence of aptitude and interest: Three recommendations, from persons competent to evaluate your potential for graduate work; A 3- to 5-page essay identifying your

career goals and particular areas of interest; a sample of your written work in history. Interested students should consult the department web page for more information.

For more information, please visit https://history.ufl.edu/.

Department of Languages, Literatures and Cultures

Chair: Akintunde Akinyemi

The Department of Languages, Literatures, and Cultures offers the Master of Arts degree (M.A.) and the Doctor of Philosophy degree in French and Francophone Studies and the Master of Arts degree (M.A.) in German Studies. Complete descriptions of the minimum requirements for the M.A. degree are provided in the Graduate Degrees section of this catalog. For more information about our programs, please follow the hyperlinks below or visit our website: https://languages.ufl.edu/academics/graduate-studies/.

Center for Latin American Studies

Director: Philip J. Williams
Graduate Coordinator: Susan Paulson

The Center for Latin American Studies offers the following graduate programs:

- Latin American Studies
- Sustainable Development Practice

For more information, please see the program pages below and our website: http://www.latam.ufl.edu.

Linguistics Department

Chair: Fiona McLaughin
Graduate Coordinator: Eric Potsdam

The Linguistics Department offers graduate programs leading to the M.A. and Ph.D. degrees with specializations in

• The core areas of linguistics (phonetics, phonology, morphology, syntax, semantics, pragmatics)
• Language documentation
• Sociolinguistics and language change
• Discourse analysis
• TESL
• Second language acquisition
• Psycholinguistics
• Neurolinguistics

Requirements for these degrees are given in the Graduate Degrees section of this catalog. For detailed information on the program, please visit the link below. For further information on the program, including financial aid, please visit http://lin.ufl.edu.

Mathematics Department

Chair: Douglas Cenzer
Graduate Coordinator: Peter Sin

The Department of Mathematics offers the Master of Science (thesis or non-thesis) and the Doctor of Philosophy degrees. The non-thesis Master of Arts in Teaching and Master of Science in Teaching are also offered. Minimum requirements for these degrees are described in the Graduate Degrees section of this catalog.

Areas of specialization for graduate research include algebra, number theory, analysis, geometry, topology, logic and set theory, differential equations, dynamical systems, probability theory, optimization, combinatorial theory, biomathematics, and imaging. Faculty and graduate students in mathematics interact with counterparts in biology, biostatistics, computer science, industrial and systems engineering, philosophy, statistics, and the Emerging Pathogens Institute. The department houses the Center for Applied Mathematics and participates in the Center for Applied Optimization.

Aside from the regularly scheduled courses, the department offers a variety of seminars and special topics courses which engage faculty and graduate students at the frontiers of research.

For more information, please see the program page below or our website: http://www.math.ufl.edu.

Philosophy Department

Chair: John Palmer
Graduate Coordinator: Robert D'Amico

The Department offers the Master of Arts and the Doctor of Philosophy degrees. General requirements for these degrees are described in the Graduate Degrees section of this catalog, and program-specific requirements are provided on the Philosophy Program page below.

All graduate students must take in their first fall semester of enrollment the Graduate Proseminar (PHI 5935), an intensive workshop requiring regular writing and presentation of philosophical papers; they must also take in that first year the foundational course on Graduate Logic (PHI 5135). These two critical courses help ensure success in the core curriculum, which is designed to provide a thorough grounding in the three main divisions of philosophical work: history, value theory, and the various areas known together as M&E ("metaphysics and epistemology").

Graduate students enjoy a supportive community. TAships are provided with shared office space, and most graduate students participate in organizing a yearly conference, the Southeast Graduate Philosophy conference (for more information, see http://www.phil.ufl.edu/seg). Some funding for supporting graduate student travel to conferences is available.

Funding for graduate students is provided primarily by Teaching Assistantships. Most admitted graduate students are funded in this way. A typical TA assignment renders a graduate student responsible for three discussion sections (associated with a single course), ranging in size from 15-25 students each, under the supervision of the main instructor. Such TAs lead discussions once a week for each such section, grade assigned work, proctor exams, take attendance, hold office hours, advise students, and other such tasks as assigned by their supervisor. The Department maintains two online courses (versions of PHI 2010 and PHI 2630) and some TAships are assigned to support of those courses. Newer TAs assist with lower level courses (such as Introduction to

Philosophy and Contemporary Moral Issues) and more experienced TAs may, depending on scheduling needs, assist with more advanced courses. M.A. students who have demonstrated exceptional teaching capabilities may have the chance to teach their own course during the summer after which they have completed all course requirements for the degree. Advanced Ph.D. students more regularly get these opportunities, both during the summer and the fall and spring semesters.

Additional funding support may be available via TAships assisting for the University's special humanities program (currently limited to the "What is the Good Life?" course) and advanced students may be eligible to teach sections for the University Writing Program.

For more information, please see the program page below as well as our website at http://www.phil.ufl.edu.

Physics Department

Chair: Kevin Ingersent
Graduate Coordinator: Xiaoguang Zhang

The Department of Physics offers the Master of Science (thesis or nonthesis) and the Doctor of Philosophy degrees. The nonthesis Master of Science in Teaching is also offered. General requirements for these degrees are described in the Graduate Degrees section of this catalog. Program specific requirements are listed under Physics and can be found on our website.

Areas of specialization for graduate research include astrophysics and cosmology, atomic and molecular physics, biological physics, chemical physics, condensed matter physics (theory and experiment), nuclear physics, particle physics (theory and experiment), statistical physics, and low temperature physics.

Special interdisciplinary research programs include the Institute for Fundamental Theory (carried out jointly with the Department of Mathematics), the Institute for Theoretical and Computational Studies in Molecular and Materials Science (also known as the Quantum Theory Project or QTP, carried out jointly with Chemistry, Materials Science and Engineering, and Computer and Information Science and Engineering Departments), the Institute of High Energy and Particle Astrophysics, and Microfabritech (jointly with the College of Engineering). A curriculum is offered by the Center for Chemical Physics for students interested in research related to chemistry or chemical engineering. The Center for Condensed Matter Sciences provides opportunities for investigations in a diverse range of subjects and fields, including the Microkelvin Research Laboratory. The University of Florida operates the National High Magnetic Field Laboratory jointly with Florida State University and Los Alamos National Laboratory.

For more information, please see the program page below, and visit our website: http://www.phys.ufl.edu.

Plant Molecular and Cellular Biology Department

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

Plant Molecular and Cellular Biology (PMCB) currently has 45 faculty members in the program. They are based in the departments of Agronomy, Biology, Environmental Horticulture, Forest Resources and Conservation, Horticultural Sciences, Microbiology and Cell Science, Molecular Genetics and Microbiology, and Plant Pathology within the colleges of Agriculture and Life Sciences, Medicine, and Liberal Arts and Sciences.

Political Science Department

Chair: Daniel Smith
Graduate Coordinator: Michael Martinez

The Department of Political Science currently offers two graduate degrees: Master of Arts (thesis or nonthesis option) and Doctor of Philosophy. The political science--international relations program currently offers the Master of Arts (thesis or nonthesis option). Requirements for these degrees are given in the Graduate Degrees Section of this catalog. For further information, please contact the Political Science Department or follow the hyperlinks below to more information about the specific programs offered.

Psychology Department

Chair: Lise Abrams
Graduate Coordinator: Julia A. Graber

The Department of Psychology offers the Master of Science and the Doctor of Philosophy degrees. Complete descriptions of the minimum requirements for these degrees are provided in the *Graduate Degrees* section of this catalog. Students are not accepted for a terminal master's degree.

For more information, please see the program page below and our website: http://www.psych.ufl.edu.

Religion Department

Interim Chair: James Mueller
Graduate Coordinator: David G. Hackett

The graduate program in the Department of Religion at the University of Florida is designed to prepare students for careers in academia, public service, non-governmental organizations, and various forms of advocacy work. Our five areas of study include: Buddhist Traditions, Global Islam, Hindu Traditions, Religion in the Americas and Religion and Nature. For additional information, please refer to the Graduate Student Manual.

The M.A. Program

The M.A. degree provides a broad background in the study of religious traditions and theoretical orientations in the discipline. An M.A. student can choose whether s/he will concentrate in one of the five areas of study. If s/he chooses to do so, s/he needs to take the courses recommended for that field of specialization. If s/he chooses not to, s/he can pick courses from across the fields. Course work usually culminates in a thesis and an oral examination.

The department also offers a combined program designed for superior students who have the ability to pursue an accelerated program leading to the Bachelor of Arts and the Master of Arts degree in Religion.

The Ph.D. Program

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 areas of study and should fulfill the recommended course work as outlined in the area descriptions. Students in all fields are encouraged to take courses in other departments to support work in their area of specialization.

Course Work

Graduate students in religion ordinarily take courses of different kinds and for different purposes. One aim is to develop familiarity with leading traditions of research and analysis in religious studies. Another is to prepare for PhD examinations. A third is to pursue specific interests relevant to the student's scholarly development, especially in relation to the thesis or dissertation. A fourth is to prepare for careers outside of academia. Students are expected to consult their supervisory committee chair and the department's graduate coordinator in designing a course of study that satisfies these aims in the limited time available.

Every year a Method and Theory departmental seminar is offered (Method & Theory I or II in alternate years). This course is required of all first and second year graduate students. Its purpose is to help students develop awareness of various approaches to the study of religion, the history of these approaches, and their assumptions about understanding and explaining religious texts and behavior.

Every other year an Interdisciplinary Seminar is offered. The purpose of this course is bridge the department's separate areas of study through the examination of topics and themes broadly relevant to the field of religious studies. The content of this course changes each time it is offered and all first and second year graduate students are required to take this course when it is offered during their first two years of graduate study.

Specialized instruction within the areas of study is carried on primarily in courses detailed in the area descriptions. The department also offers graduate seminars in related areas outside the specific fields. In addition, students regularly participate in individual or small reading courses with a member of the faculty, the form and content of which are tailored to the student's particular needs and interests.

Almost all graduate students in religion take courses outside the department. Most enroll in graduate seminars and reading courses in such departments and centers as African Studies, Anthropology, Botany, English, History, Jewish Studies, Latin American Studies, Philosophy, Political Science, Sociology, Women's Studies and Gender Research, Zoology, and from the interdisciplinary School of Natural Resources and the Environment.

While specific degree requirements and interests shape a candidate's program, most generally enroll in three courses, including both seminars and reading courses, during each of the semesters prior to the M.A. thesis or Ph.D. qualifying examinations.

Mentoring

All students are assigned a faculty mentor upon admission to the program, based on expressions of faculty interest and the student's intended area of study. 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 chairperson and one UF faculty member from outside the department.

Sociology and Criminology & Law Department

Chair: Barbara Zsembik
Graduate Coordinator: Alin-Mihai Ceobanu

The Department of Sociology and Criminology & Law offers several programs of graduate study leading to the Ph.D. in Sociology, the Ph.D. in Criminology, Law and Society, the MA in Sociology, the MA in Criminology, Law and Society, and a Joint MA in Criminology/JD degree. The department also partners with the School of Natural Resources and Environment Department to offer the Ph.D. or MA in Interdisciplinary Ecology. Advanced undergraduate majors may complete a combined BA/MA degree in Sociology or a combined BA/MA degree in Criminology, Law and Society.

Spanish and Portuguese Studies Department

Chair: G. Lord
Graduate Coordinator: L. Álvarez Castro

The Department of Spanish and Portuguese Studies offers a Master of Arts degree (M.A.) in Spanish (thesis and non-thesis options) and a Doctor of Philosophy degree (Ph.D.) in Romance Languages and Literatures, with a concentration in Spanish. Descriptions of the minimum requirements for both degrees are provided in the General Information section of this catalog. For specific information about the program, please visit the graduate section of the departmental webpage:

http://www.spanishandportuguese.ufl.edu/spanish/graduate.html

Candidates for graduate degrees (both M.A. and Ph.D.) in Spanish can choose between two specializations–literature/culture or linguistics. In conjunction with their master's or doctoral work, students may also earn a Certificate in Latin American Studies. Though a graduate degree is not offered in Portuguese, extensive course offerings at the graduate level permit students to develop a strong specialization in Portuguese language and Luso-Brazilian literature, film and culture.

The main prerequisite for admission to the M.A. program is an undergraduate major in Spanish, ideally including advanced courses in the proposed area of specialization. Applicants for the Ph.D. should hold an M.A. or equivalent degree in Spanish. At the discretion of the Graduate Studies Committee, candidates from related fields of study (History, Sociology…) may be offered a conditional admission into the Ph.D. program pending the passing of the M.A. Comprehensive Examination within the first year of study.

All M.A. and Ph.D. students in Spanish who are appointed as teaching assistants must take Romance Language Teaching Methods (FOL / FOL 6943). Besides, all M.A. and Ph.D. students specializing in literature and culture must take Introduction to Graduate Study and Research (SPW 6806). Other requirements vary with degree and specialization. For details, consult the graduate section of the departmental webpage (see above).

The Department is able to offer most students a teaching assistantship that provides a maintenance stipend and includes a tuition waiver. Contingent on positive performance in teaching and graduate work, M.A. students are guaranteed four semesters of support, and Ph.D. students are guaranteed eight semesters of support beyond the M.A. In addition, there are several fellowships, supplements and stipends for which students may apply, and summer teaching may be available.

Prospective students are encouraged to review the departmental webpage in order to familiarize themselves with the program and the application process. Only those applications including all required materials and submitted by the advertised deadlines will be considered. For any questions about the program or how to apply, please contact the graduate coordinator: grad-coord@spanish.ufl.edu.

Highly qualified UF undergraduate students majoring in Spanish may apply for a combined B.A./M.A. program in Spanish that allows up to 12 graduate credits to be counted toward fulfillment of both degrees. Contact the graduate coordinator for qualifications and details.

Statistics Department

Chair: B.D. Presnell
Graduate Coordinator: J. P. Hobert

Graduate programs are available leading to Master of Science in Statistics, Master of Statistics, and Doctor of Philosophy degrees. Minimum requirements for these degrees are described in the *General Information* section of this catalog.

Both master's programs usually require 2 years of course work including material covered in STA 6207, STA 6208, STA 6326, STA 6327, STA 6246, and STA 6329. In addition to earning a "Ph.D. pass" on the first-year evaluation, requirements for the Ph.D. degree include STA 6466, STA 6467, STA 7249, and STA 7346.

Interdisciplinary programs: The Department offers a co-major program in conjunction with the Fisher School of Accounting leading to the Doctor of Philosophy degree in statistics and business administration accounting. The Department is also a partner in the interdisciplinary concentration in quantitative finance, along with the Departments of Mathematics; Industrial and Systems Engineering; and Finance, Insurance, and Real Estate. For information on these programs, consult the departmental graduate coordinator.

Combined program: The Department offers a bachelor's/master's degree program. Contact the graduate coordinator for information.

For more information, please visit http://www.stat.ufl.edu/.

Women's Studies Department

Director: Bonnie Moradi
Graduate Coordinator: Kendal Broad

The Women's Studies program is administered by the Center for Women's Studies and Gender Research. This interdisciplinary forum for graduate studies offers both a Thesis and a Non-Thesis M.A., as well as a two certificates. These options give students the opportunity to take advantage of scholarship in this dynamic field, and to become acquainted with different research perspectives and methodologies. Students become well grounded in theories of gender in cultural systems and in ways that gender intersects with other categories of difference such as race, ethnicity, religion, class, sexuality, nation, physical and mental ability, age, and economic and civil status. Faculty and students employ feminist and other appropriate theoretical approaches and methodologies.

The Center offers a regular colloquium series, frequently sponsors speakers, and distributes a newsletter each fall and spring. The Center in Ustler Hall houses archives, a small library, offices, and meeting space.

For more information about our program, please see the program page below or our website: http://wst.ufl.edu/.

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 Graduate Degrees section of this catalog. For more information, please see our website: http://graduate.education.med.ufl.edu/.

The interdisciplinary program (IDP) in biomedical sciences is the major focus leading to the Doctor of Philosophy degree. Other graduate courses and programs are listed under departmental headings. For further information, visit http://biomed.med.ufl.edu/.

Biochemistry and Molecular Biology Department

Chair: James B. Flanegan
Graduate Coordinator: Andrew Berglund Biochemistry and Molecular Biology Department faculty mentor

M.S. and Ph.D. students in the College of Medicine interdisciplinary program (IDP) in medical sciences. Students interested in pursuing a doctoral degree can view specific features of the biochemistry and molecular biology concentration at http://biochem.med.ufl.edu/ and http://idp.med.ufl.edu. For admission information, visit the IDP website. Department faculty also mentor Ph.D. students in other college programs and participate actively in the research and teaching functions of various centers such as the Center for Epigenetics and the Center for Structural Biology.

Biostatistics Department

College of Public Health and Health Professions
College of Medicine

Chair: Peihua Qiu
Associate Chair for Education: Babette Brumback
Graduate Coordinator: Kristen Cason

The Department of Biostatistics offers the Doctor of Philosophy degree in biostatistics, the Master of Science degree in biostatistics, and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of 54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website http://biostat.ufl.edu/education/phd-in-biostatistics/curriculum-overview/.

Master of Science

The biostatistics masters degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of 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/ms-curriculum-overview/.

Epidemiology Department

College of Public Health and Health Professions
College of Medicine

Chair: Linda Cottler
Ph.D. Program Director: Cindy Prins
M.S. Program Director: Catherine Woodstock Striley

The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described here). Minimum requirements for these degrees are described in the Graduate Degrees section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: http://epidemiology.phhp.ufl.edu.

Health Outcomes and Policy Department

College of Medicine

Chair: Betsy Shenkman
Graduate Coordinator: Jill Herndon

Students can pursue either a Master of Science degree or a Graduate Certificate.

There is increasing emphasis on assessing health outcomes throughout the lifespan in a variety of health care and community settings. Nationally, the National Institute of Health and other federal and state agencies focus on the development of evidence-based programs to promote health, improve health care delivery, and enhance health outcomes.

Outcomes research generates evidence that informs health care program design in clinical and community settings, the promotion of effective clinical and community interventions, quality of care, cost-effective and clinically appropriate choices for patients in allocation of health care resources (clinical effectiveness), and incorporation of best practice models into health-related programs and policies. Outcomes research also provides mechanisms to understand how to translate research into practice and policy, how to improve the quality and efficiency of health programs, and how to achieve equitable and appropriate delivery of health programs and clinical care, particularly for underserved and vulnerable populations.

Our graduate programs are designed to train professionals in the health care and health research fields about the science that supports the development and evaluation of evidence-based clinical and community-based programs focused on improving health outcomes. Further, our programs emphasize methods for translating research into practice and policy. The unique combination of courses offered through these graduate programs will give trainees the tools needed to examine health outcomes and policies in a variety of settings across different age spans and to examine the individual, social, health system, and health policy factors that influence health outcomes.

In addition to traditional graduate students, both programs are available to medical students, post-doctoral students, fellows, residents, Ph.D. students, and junior faculty.

For more information, please visit https://health-outcomes-policy.ufl.edu/.

Molecular Genetics and Microbiology Department

Chair: H. V. Baker
Graduate Coordinator: A. S. Lewin

The Graduate Faculty of the Department of Molecular Genetics and Microbiology participate in the interdisciplinary program (IDP) in medical sciences, leading to the Doctor of Philosophy degree, with specialization in one of the six advanced concentration areas of the IDP (see *Medical Sciences*). Departmental areas of research associated with the IDP focus on topical problems in molecular genetics, viral genetics, and viral and bacterial pathogenesis. Faculty in the Department of Molecular Genetics and Microbiology also participate in the M.S. programs (see *Medical Sciences*). In addition to courses associated with the IDP, the Department of Molecular Genetics and Microbiology maintains the courses listed below.

Biotechnology: This Master of Science program is for students seeking careers in the biomedical industry as research or managerial associates; students seeking careers as teachers or educators at any level, but primarily high school or junior college; or students seeking an in-depth understanding of modern biology and scientific research as an end in itself or in preparation for further graduate study. The foundation of the M.S. program is a basic understanding of molecular and cell biology and the performance of a high-quality research project, culminating in a thesis, under the direction of a skilled mentor, with supervision

by a committee composed of members of the Graduate Faculty. Specialization may be in any of the fields of research being pursued at the College of Medicine including but not limited to molecular genetics, gene therapy, bacterial or viral pathogenesis, protein structure, toxicology, mammalian genetics, wound healing, and congenital eye diseases.

For more information contact the Master's Program Coordinator, Molecular Genetics and Microbiology, P.O. Box 100266, College of Medicine, Gainesville, FL 32610, Telephone (352)392-3314 or visit http://mgm.ufl.edu/.

College of Nursing

Dean: A.M. McDaniel

The nationally ranked College of Nursing offers the graduate degrees of Master of Science in Nursing 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 also offers the professional degree of Doctor of Nursing Practice. The degree is a practice-focused doctorate designed to prepare expert nurses in specialized advanced practice. The DNP is an advanced educational credential for those who desire advanced practice knowledge but do not need or want a research focus. The focus of DNP program is on innovative and evidence-based practice. The DNP prepares advanced practice nurses with the knowledge, skills and abilities needed in today's and tomorrow's complex health care environment, and to provide advanced practice nurses with educational backgrounds comparable to health care practitioners in other fields. As a professional degree, the rules and regulations as well as the courses for the DNP are not covered under this Catalog; please see the College of Nursing website for more information: http://admissions.nursing.ufl.edu/degrees/doctor-of-nursing-practice-degree.

For additional information about the Nursing programs, please see the programs listed below and our website: http://www.nursing.ufl.edu or call (352) 273-6331.

College of Pharmacy

Dean: J. Johnson

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 additional concentrations in the Master of Science in Pharmacy program in pharmaceutical sciences offered in a distance-learning, nonthesis format: forensic science, forensic drug chemistry, forensic serology and DNA, clinical toxicology, pharmaceutical chemistry, medication therapy management and clinical pharmacy. Complete descriptions of the minimum requirements for the M.S.P. and Ph.D. degrees are provided in the Graduate Degrees section of this catalog.

The Graduate Faculty and courses offered are listed under department headings in this catalog. The courses listed below consist of seminar, supervised teaching and research, and research for thesis or doctoral dissertation. These courses are offered in each of the departments.

Students who wish to pursue graduate studies in the College of Pharmacy must have an undergraduate degree in pharmacy, chemistry, biology, or related sciences.

Satisfactory completion of a thesis or dissertation based on research is a requirement for a graduate degree in the pharmaceutical sciences.

Inquiries regarding applications and general information about the graduate programs are processed through the College of Pharmacy Graduate Programs Office at graduateadmissions@cop.ufl.edu.

For more information, please see the program pages listed below and our website: http://pharmacy.ufl.edu.

Medicinal Chemistry Department

College of Pharmacy

Chair: Hendrik Luesch
Graduate Coordinator: Chenglong Li

The mission of the department of Medicinal Chemistry is to conduct basic research in chemistry and biochemistry as it relates to drug discovery, to teach these principles in the professional and graduate programs, and to provide service to the scientific community.

The Department of Medicinal Chemistry is located in the College of Pharmacy, and is an integral part of the University of Florida's Health Science Center. Medicinal Chemistry is a unique blend of the physical and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active interest include drug discovery, organic synthesis of medicinal agents, natural products chemistry, prodrugs, topical drug delivery, peptide chemistry, molecular modeling, drug metabolism and molecular toxicology. The department has excellent facilities for research in the major areas of Medicinal Chemistry and faculty have been highly successful in attracting extramural research support for the past several years. The Department faculty members are involved in teaching, research and service.

Medicinal Chemistry areas of research in drug design, marine natural products and toxicology are a unique blend of the physical and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active interest include drug discovery, organic synthesis of medicinal

agents, natural products chemistry, prodrugs, topical drug delivery, peptide chemistry, molecular modeling, drug metabolism and molecular toxicology.

The Department participates in the interdisciplinary concentration in toxicology. For more information, see the *Interdisciplinary Graduate Studies* section of this catalog.

For more information, please visit our website: http://pharmacy.ufl.edu/mc.

Pharmaceutics Department

College of Pharmacy

Chair: H. C. Derendorf
Graduate Coordinator: S. Song

The focus of the Department of Pharmaceutics, which houses the Center for Drug Discovery, differs sufficiently from that of other College of Pharmacy departments as to justify a specialization. The uniqueness of the department is evident in present research activities which encompass basic, applied and clinical investigations in the areas of Biopharmaceutics and Pharmacokinetics, Pharmaceutical Biotechnology, Pharmaceutical Analysis, Drug Delivery, and Drug Discovery.

In addition to teaching, faculty members in the Department of Pharmaceutics are involved in collaborative research projects with clinical and other basic scientists within the Health Center or on campus. Many maintain collaborative ties with scientists in other universities and the pharmaceutical industry worldwide.

Currently, the Department of Pharmaceutics offers a Ph.D. in Pharmaceutical Sciences with a concentration in Pharmacy. A foundation in physical chemistry, chemistry, mathematics, and in the life sciences is required for applicants to be successful in the program. Many graduates of the Ph.D. program have built international careers in drug discovery and in the pharmaceutical industry. *Please note that all students enter directly into the Ph.D. program as the department does not accept student applications for an M.S. degree*.

The Department of Pharmaceutics is located in the University of Florida J. Hillis Miller Health Science Center complex, which includes colleges of Dentistry, Medicine, Nursing, Pharmacy, Public Health and Health Professions, and Veterinary Medicine. The UF&Shands system also encompasses six research institutes: the Clinical and Translational Science Institute, the McKnight Brain Institute, the Genetics Institute, the UF&Shands Cancer Center, the Institute on Aging and the Emerging Pathogens Institute. The location of the College of Pharmacy in this complex offers a broad variety of opportunities for learning and research collaboration.

For more information, please visit our website: http://pharmacy.ufl.edu/pc.

Pharmacodynamics Department

Chair: M. Keller-Wood
Graduate Coordinator: C. Frazier

The Department of Pharmacodynamics offers a Doctor of Philosophy degree in Pharmaceutical Sciences with a concentration in Pharmacodynamics, and the Master of Science in Pharmacy (M.S.P) in Pharmaceutical Sciences with a concentration in Pharmacodynamics. The minimum requirements for these degrees are listed in the Graduate Degrees section of this Catalog. The department also participates in the Interdisciplinary Toxicology concentration. *Please note that all students enter directly into the Ph.D. program as the department does not accept student applications for an M.S. degree*.

Pharmacodynamics is an integrated field of study involving pharmacology, physiology, and toxicology in a holistic approach to drug action in living systems. The Department of Pharmacodynamics focuses on neuroendocrinology, cardiovascular pharmacology, and neuropharmacology with diverse research interests in aging, hypertension, reproduction, glaucoma, neurotoxicity, and environmental physiology. Students graduating with a Ph.D. in Pharmacodynamics can compete for jobs in the areas of academia, industry, research institutes, and government laboratories/regulatory agencies.

An undergraduate degree in pharmacy, chemistry, biology, or related sciences is required for students to be successful in the program. 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.

The Department of Pharmacodynamics is located in the University of Florida J. Hillis Miller Health Science Center complex, which includes colleges of Dentistry, Medicine, Nursing, Pharmacy, Public Health and Health Professions, and Veterinary Medicine. The UF&Shands system also encompasses six research institutes: the Clinical and Translational Science Institute, the McKnight Brain Institute, the Genetics Institute, the UF&Shands Cancer Center, the Institute on Aging and the Emerging Pathogens Institute. The location of the College of Pharmacy in this complex offers a broad variety of opportunities for learning and research collaboration.

For more information, please see the program page below and visit our website: http://pharmacy.ufl.edu/pdf.

Pharmaceutical Outcomes and Policy Department

Chair: A. Winterstein
Interim Graduate Coordinator: R. Segal

Integral to the University of Florida's Health Science Center, the Department of Pharmaceutical Outcomes and Policy offers a unique blend of research and training in patient safety, pharmacoepidemiology, pharmacoeconomics, and social-behavioral issues surrounding medication use.

Pharmaceutical Outcomes and Policy offers a broad spectrum of opportunities for training, including a residential PhD and a residential MS program, for students in the health and related sciences. Students can choose between several specialty areas and have the opportunity to immerse themselves in research early in their training with ongoing faculty research programs.

The Ph.D. degree provides individuals with the credentials to develop and direct clinical research units in universities, pharmaceutical companies and contract research organizations, and government organizations. Successful graduates have a range of technical and disciplinary competencies in research design, measurement, inferential statistics, the communication and evaluation of research, research ethics, healthcare delivery and the medication use system, the drug product, and behavioral and policy issues surrounding medication use. Those successful graduates of the residential MS degree who have a desire to continue their studies can apply for the Ph.D. program, with MS course work and other scholastic requirements applicable.

The Department has excellent facilities for quantitative and qualitative research, and faculty have been highly successful in attracting extramural research support. Qualitative research infrastructure includes conference facilities with state-of-the art equipment for focus groups or patient interviews. Quantitative research facilities include computer labs for students, a department-owned secure research server that houses various population-based datasets, and a variety of software packages.

For more information, please see the program page below and visit our website: http://pop.pharmacy.ufl.edu.

Pharmacotherapy and Translational Research Department

College of Pharmacy

Chair: R. Frye
Graduate Coordinator: J. Lamba

The Department of Pharmacotherapy and Translational Research provides classroom and clinical instruction for pharmacy students and trains graduate students in clinical translational research. The department is proud of its national reputation as a leader in the areas of pharmacy practice, education and clinical translational research. Faculty members in the department are successful in obtaining research funding from numerous sources, including the National Institutes of Health.

The Department of Pharmacotherapy and Translational Research offers a variety of excellent clinical residencies and research fellowships, and offers a PhD program in Clinical Pharmaceutical Science. The goal of the Clinical Pharmaceutical Sciences training program is to prepare motivated individuals to pursue independent research careers in academia, industry, or government. The current research focus of the program is on understanding genetic and non-genetic factors that contribute to variability in drug response.

The Department of Pharmacotherapy and Translational Research is located in the University of Florida J. Hillis Miller Health Science Center complex, which includes colleges of Dentistry, Medicine, Nursing, Pharmacy, Public Health and Health Professions, and Veterinary Medicine. The UF&Shands system also encompasses six research institutes: the Clinical and Translational Science Institute, the McKnight Brain Institute, the Genetics Institute, the UF&Shands Cancer Center, the Institute on Aging and the Emerging Pathogens Institute. The location of the College of Pharmacy in this complex offers a broad variety of opportunities for learning and research collaboration.

For more information, please see the program page below and visit our website: http://ptr.pharmacy.ufl.edu.

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.

For more information, please see our website: http://phhp.ufl.edu

Behavioral Science and Community Health Department

College of Public Health and Health Professions

Interim Chair: Amy Blue
Graduate Coordinator: Amanda Glynn

The Department of Behavioral Science & Community Health (BSCH) is one of nine academic departments housed in the School of Public Health and Health Professions at the University of Florida. The department offers programs leading to the Master of Public Health (M.P.H.) with a concentration in Social and Behavioral Sciences, as well as the Doctor of Philosophy (Ph.D.) in Public Health with a concentration in Social and Behavioral Sciences. The official minimum requirements for these degrees are available in the Graduate Degrees section of this catalog.

For more information, please see the program pages below and our website: http://bsch.phhp.ufl.edu.

Biostatistics Department

College of Public Health and Health Professions
College of Medicine

Chair: Peihua Qiu
Associate Chair for Education: Babette Brumback
Graduate Coordinator: Kristen Cason

The Department of Biostatistics offers the Doctor of Philosophy degree in biostatistics, the Master of Science degree in biostatistics, and the Master of Public Health degree with concentration biostatistics, which is described in detail in the Public Health section of the catalog. These programs in the Department are designed to prepare students for research and faculty positions; careers in health agencies and health-related institutions; and for consultation, especially in the biomedical fields. Although each graduate program has a set of required courses, there is ample flexibility in the programs to allow each student to develop strengths and interests through elective courses, seminars, and tutorials.

Doctor of Philosophy

The biostatistics doctoral program requires a minimum of 90 semester credits beyond the bachelor's degree. Students must have a directly related master's degree (i.e. Master of Science in statistics or biostatistics). All students must complete a minimum of

54 credits of biostatistics/statistics course work (30 credits will typically be transferred from a Master of Science program), 6 credits of public health course work, 3 credits of a consulting requirement, 6 credits of the cognate requirement, and 21 credits of dissertation work.

All graduates of the program are expected to be able to

- Conduct independent research in the development of new biostatistical methodology
- Engage in successful collaborations with investigators in new quantitative fields
- Write statistical methodology papers for peer-reviewed statistical and biostatistical journals
- Write collaborative papers for peer-reviewed subject matter journals
- Compete successfully for research and teaching positions in academic institutions, federal and state agencies, or private institutions

Specific course requirements are described at the program website http://biostat.ufl.edu/education/phd-in-biostatistics/curriculum-overview/.

Master of Science

The biostatistics master's degree (MS) requires a minimum of 36 semester credits beyond the bachelor's degree. The program is designed to facilitate students' development of a strong theoretical foundation in biostatistics, broad-based understanding of biostatistical methods, and expertise in a cognate field. A typical student will be enrolled full-time for two years. Upon successful completion of the program, graduates will be awarded an M.S. degree in biostatistics.

The principal goal of the M.S. program is to prepare highly qualified individuals for future Ph.D. training and for careers in biostatistics practice. This training is conducted in the innovative and interdisciplinary public health culture of the college of public health and health professions and the college of medicine. We expect our graduates to be highly competitive in three primary settings: academic university-based settings, industry, and federal agencies that involve research and/or public health practice.

Specific course requirements are described at the program website http://biostat.ufl.edu/education/ms-in-biostatistics/ms-curriculum-overview/.

Clinical and Health Psychology Department

College of Public Health and Health Professions

Department Chair: David Janicke
Program Director and Graduate Coordinator: Russell Bauer
Academic Coordinator: Milan Savic

The Department of Clinical and Health Psychology is a unit of the College of Public Health and Health Professions. The department's programs are its doctoral clinical psychology studies leading to the Ph.D. degree in psychology; an American Psychological Association accredited doctoral internship program; and postdoctoral studies and research. Requirements for the M.S. and Ph.D. degrees are given in the Graduate Degrees section of this catalog.

The clinical psychology doctoral curriculum adheres to the scientist-practitioner model of education and training. Program strengths include research, education, and professional training in health care psychology, with organized areas of concentration in clinical health psychology, clinical child/pediatric psychology, neuropsychology, neurorehabilitation and clinical neuroscience, and emotion neuroscience/psychopathology. Education and training experiences are also available in rural psychology. Interested students can apply for acceptance into the Public Health Program and obtain dual M.P.H./Ph.D. degrees.

Progress in the program is determined by departmental policies which are consistent with American Psychological Association accreditation standards. The curriculum has been continuously accredited by the American Psychological Association since 1953.

Admission to the Department is through appropriate application to the Department's admission committee. A bachelor's degree is generally adequate preparation for graduate admission. It should include undergraduate courses in both experimental psychology and statistics, along with at least three courses from the following psychology areas: developmental, learning, perception, personality, physiological, and social.

For more information, please see the program page below and our website: http://chp.phhp.ufl.edu.

Environmental and Global Health Department

Interim Chair: Tara Sabo-Attwood
Ph.D. Program Director: Andrew Kane
Graduate Coordinator: Caronne Rush

The Department of Environmental and Global Health offers graduate work leading to the degrees of Doctor of Philosophy, Master of Health Science, and Master of Public Health. The official minimum requirements for these degrees are listed in the Graduate Degrees section of this catalog.

The Department of Environmental and Global Health focuses upon environmental factors that impact human health. Department faculty, scientists, and students employ numerous disciplines in studying these environmental factors: virology, bacteriology, parasitology, entomology, toxicology, epidemiology, water sciences, veterinary health, environmental engineering, aerosol biology, wildlife health, etc. Research work often involves international travel and collaboration. A central theme for the department is the interdisciplinary thinking called One Health which reflects the collaborations necessary to tackle public health's most difficult problems. Faculty, students and staff often perform research in the laboratories in the Emerging Pathogens Institute, the Center for Environmental and Human Toxicology, or the Aquatic Pathobiology Laboratory.

For more information, please see the program pages below and our website: http://egh.phhp.ufl.edu.

Epidemiology Department

College of Public Health and Health Professions
College of Medicine

Chair: Linda Cottler
Ph.D. Program Director: Cindy Prins
M.S. Program Director: Catherine Woodstock Striley The Department of Epidemiology – jointly governed by both the College of Public Health and Health Professions and the College of Medicine – offers the Doctor of Philosophy degree in epidemiology, Masters of Science in epidemiology, as well as the Master of Public Health degree with a concentration in epidemiology (described here). Minimum requirements for these degrees are described in the Graduate Degrees section of this catalog. The programs in the Department are designed to prepare students for careers in academic research environments, careers in public health agencies and health-related institutions, and for consultation, especially in the biomedical fields.

More information on these programs is available at the program page below and at the department website: http://epidemiology.phhp.ufl.edu.

Health Services Research, Management and Policy Department

Chair: Arch G. Mainous, III
Graduate Coordinator: Ikiah Young

The Department of Health Services Research, Management and Policy offers degree programs at both the master's and doctoral level. The Master of Health Administration (M.H.A.) prepares individuals for management positions in the health care field. The Department also participates in the Master of Public Health (M.P.H.) degree by offering a concentration in Public Health Management and Policy (more information available here).

At the doctoral level, the Department offers the Ph.D. degree in Health Services Research. This full-time program prepares graduates to investigate and evaluate the complexities of health care systems in the U.S. and elsewhere. Health services research is a multidisciplinary field that examines the delivery, organization, financing, and outcomes of health care services.

Minimum requirements for these degrees are available in the Graduate Degrees section of this catalog.

For more information, please see the program pages below and our website: http://hsrmp.phhp.ufl.edu.

Occupational Therapy Department

Chair: S. Classen
Graduate Coordinator: C. Myers

The Department of Occupational Therapy offers graduate programs in occupational therapy leading to the Master of Health Science (M.H.S.) degree and the entry-level Master of Occupational Therapy (M.O.T.) degree. Complete descriptions of the requirements for these degrees are provided in the *General Information* section of this catalog.

Master of Health Science: This program is designed for students who have earned an undergraduate degree in Occupational therapy. The thesis option requires four semesters of course work and a formal research thesis, while the nonthesis option requires three semesters of course work and a research project. The program emphasizes research and advanced theories related to occupational therapy practice.

Additional information about the Master of Health Science is available at http://www.ot.phhp.ufl.edu or by telephone at (352)273-6817.

Master of Occupational Therapy: This entry-level degree program is designed for students who do not have an undergraduate degree in occupational therapy. The program provides students with a holistic perspective, including an understanding of the philosophical and theoretical bases for practice in the current health care environment. The M.O.T. program provides a strong background in theory, assessment, and therapeutic interventions. Before their professional preparation in the M.O.T. program, students receive a liberal education in their pre-professional baccalaureate studies, including several courses specifically focused for students planning to enter the M.O.T. program. Students complete these courses in the Bachelor of Health Science degree program at the bachelor's level, or they may complete these courses as part of the M.O.T. program. Students are only admitted into the M.O.T. program once a year and graduate at the end of the fall term after 1.33 years of full-time M.O.T. coursework (5 semesters) and 58 credits.

Admission requirements include completion of an undergraduate degree and the prerequisite course work. Three letters of reference and a letter of application are required by the Department. Additional information is available at http://www.ot.phhp.ufl.edu and http://gradschool.rgp.ufl.edu or by telephone (352)273-6817.

This program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association. The address for ACOTE is 4720 Montgomery Lane, Suite 200, Bethesda, MD, 20814. The phone number is (301) 652-2682. Graduates of the program are eligible to sit for the national certification exam administered by the National Board for Certification in Occupational Therapy (NBCOT). The website address of NBCOT is www.nbcot.org.

Speech, Language, and Hearing Sciences Department

Chair: Susan N. Nittrouer
Associate Chair: Scott K. Griffiths
Graduate Coordinators: Kenneth J. Logan and Hannah W. Siburt

Graduate programs in the Department lead to Master of Arts and Doctor of Philosophy degrees in Communication Sciences and Disorders and to the Doctor of Audiology degree.
Requirements for these degrees are given in the Graduate Degrees section of this catalog.

The Master of Arts in Communication Sciences and Disorders and the Doctor of Audiology degrees are accredited by the Council on Academic Accreditation/American Speech-Language-Hearing Association.

The **Master of Arts (M.A.) Program** offers comprehensive academic and clinical training for students who are interested in a career in speech-language pathology. The five-semester program culminates in the completion of either a clinical externship or a Master's thesis, and it provides graduates with a solid foundation for obtaining employment in a variety of work settings. Students have the opportunity to complete clinical practica at sites within the University of Florida's Health Science Center and at other medical, rehabilitative, and educational facilities on or near the campus. These sites allow students to gain experience with providing clinical services to a range of patient populations.

Applicants to the Master's program must demonstrate successful completion of pre-requisite coursework in both normal bases of communication and introductory concepts in communication disorders. Additional information about these pre-requisites is available on the Department website. Graduates of the program are eligible for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association as well as state licensure in speech-language pathology. For more information, contact Kenneth J. Logan, Ph.D. (klogan@ufl.edu).

The **Doctor of Audiology (Au.D.) Program** in the Department of Speech, Language, and Hearing Sciences is a four-year graduate degree. Graduate students take course work in theoretical and applied audiologic sciences and research. There are no specific undergraduate courses required for admission to the Au.D. degree program, although applicants with a strong science background are encouraged to apply. Graduates of this program are eligible for the Certificate of Clinical Competence in Audiology (CCC-A) administered by the American Speech-Language-Hearing Association, Board Certification in Audiology administered by the American Academy of Audiology, and for state licensure in audiology. For more information, contact Hannah W. Siburt, Ph.D. (hsiburt@phhp.ufl.edu).

The **Ph.D. Program in Communication Sciences and Disorders** provides a state-of-the-art education in research practices in speech-language pathology and audiology. The Ph.D. program has a strong interdisciplinary focus and is designed to prepare the next generation of researchers who are specialized in basic and/or applied science related to a range of speech, language, hearing, and swallowing functions. The program's goal is to develop researchers who are skilled at independently designing and conducting original research that adds to the body of knowledge in the field. Students are individually mentored and pursue individually designed programs of study that are tailored to their interests and needs. Programs of study often incorporate training in appropriate adjunct fields such as engineering, dentistry, gerontology, linguistics, psychology, medicine and special education. For more information, contact Lori Altmann, Ph.D. (laltmann@ufl.edu). The Department of Speech, Language, and Hearing Sciences is committed to providing its students with a high-quality educational experience that will prepare them for rewarding employment in the areas of speech-language pathology and audiology, as well as an eagerness for life-long learning and professional development. The department strives to enroll a diverse group of students who possess both high ethical

standards and strong academic skills. The application deadline for fall semester admission to the M.A., Au.D., and Ph.D. programs is January 15.

For more information on these degree programs and associated application procedures, please see the program pages below and the department website: http://slhs.phhp.ufl.edu.

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.

For more information, please see our website: http://www.vetmed.ufl.edu

Animal Molecular and Cellular Biology Department

Director: P.J. Hansen

For more information about the program, contact P.J. Hansen at pjhansen@ufl.edu, follow the link below to our catalog page, or visit the program's website at http://www.animal.ufl.edu/amcb/.